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FEATURED PRODUCTS



Microcontrollers, Breakouts & Accessories

Whether you're tinkering with a prototype or building the next best thing of the internet, Adafruit has cutting edge, sought-after products to help make your designs a reality.



2244341

2244869

Price

Part No.	Mfr. Part No.	Description	Price
2244421	3046	Feather HUZZAH with ESP8266 WiFi & assembled header pins. 80MHz, 4MB Flash, on-board CP2104 USB-Serial converter, JST socket for LiPo battery (LiPo not included)	\$19.95
2244869	2471	HUZZAH ESP8266 WiFi breakout. Client & AP. 80MHz MCU, 9x GPIO, 2x UART, 1x analog input, 3-5Vin & "FTDI" pinout. FCC certified.	9.95
2244922	3296	DS1307 Real Time Clock breakout board. I ² C address 0x68. PCB (1" x 0.85" x 0.2") has 2 mounting holes. Requires CR1220 battery (not incl., recommend P/N 2123784)	7.95
2244885	2028	Assembled Pi T-Cobbler Plus GPIO breakout for Raspberry Pi. Convenient T-shape lets you read labels and easily attach to solderless breadboard while prototyping	7.95
2244341	3382	28-pin, 0.3" wide ZIF (Zero Insertion Force) socket. Ideal if you program or debug ICs or make custom Arduino boards. Swing lever down to latch and make connections. 2" x 0.6" x 0.43"	3.95

Complete product specifications available online. Use Web Code: ARD

JAMECO BenchPro

Digital Multimeters

Digital multimeters are an essential tool for technicians, builders, students and hobbyists. They are the go-to tool when you need to check the voltage at an output, check for continuity, or test a diode or transistor.

- 3.5 digits
- 1999 count



Part No.	Mfr. Part No.	Description	Price
2230002	DT830D	DC/AC voltage, DC current, resistance, and diode, transistor, continuity test, square wave generator	\$9.95
2238397	DT-182	DC/AC voltage, DC current, resistance, diode, transistor and battery test functions. Compact: 3.94" x 1.97" x 0.91"	10.95
2230029	MY61	DC/AC voltage and current, resistance, capacitance, temperature and diode, transistor, continuity test	29.95

2230029

Complete product specifications available online. Use Web Code: HBK

Battery Holders

No electronics project is complete without power. These battery holders are perfect for breadboarding circuits or for demonstrating electronic circuits in a classroom.



2236981

2243920

Part No.	Mfr. Part No.	Description	Price
2236981	12-051	2x AAA holder with 2.5" wires with breadboard pins	\$1.25
2232833	UM-4	4x AAA holder with PC pins below 1st & 2nd battery (0.47" pitch)	1.49
2238055	PW-3AA	3x AA holder with cover & switch, 6" wires with breadboard pins	3.95
2243920	HHE_BATT	1x D-cell holder with 3/8" tabs. Can be combined series/parallel	1.95
2228447	BC9VPC	1x 9V holder, tab terminals, open style with 0.51" pitch PC pins	1.49
2234118	BH-9VPC	1x 9V holder, snaps terminals, open style with 0.44" pitch PC pins	1.59

Complete product specifications available online. Use Web Code: UAB

120 & 220VAC Tubeaxial Fans

Use AC fans to cool equipment, audio visual cabinets, home theater equipment closets or commercial A/V racks where AC voltage is already present.

Part No.	Manufacturer	Voltage (VAC)	Size (mm) W x H x D	Air Flow (CFM)	Current (mA)	Price
146078	Common Wealth	120	80 x 80 x 25	23	Ball 180	\$15.95
1810048	Sunon	120	120 x 120 x 25	78	Ball 180	16.95
2230694	Thermocool	120	120 x 120 x 38	85	Ball 220	12.95
16935	Common Wealth	120	120 x 120 x 38	105	Ball 200	13.95
2125931	Common Wealth	120	120 x 120 x 38	112	Ball 190	13.95
102884	Sunon	120	120 x 120 x 38	117	Ball 240	14.95
355630	Fulltech	220	80 x 80 x 38	30	Ball 60	12.95
102892	Sunon	220	120 x 120 x 38	117	Ball 120	17.95
2230424	Common Wealth	220	172 x 150 x 51	210	Ball 220	29.95
2258419	Fulltech	115/230	120 x 120 x 38	92/106	Ball 260/120	15.95



2230694



355630

Complete product specifications available online. Use Web Code: ABJ

Additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

Speedy Delivery!

Great components at great prices aren't enough these days. When we speak to customers, we're as likely to hear about the need for speed. Customers want it fast, and we've done a number of things to speed delivery.

All orders for stocked products placed by 6pm EST are shipped the same day. We offer a full range of shipping options from next day air to less expensive express options. We continue to invest in our supply network so that we have more inventory on the shelf, and when it's not in stock it's usually a couple of days away.

But speed is not just about fast shipping. Sometimes just shopping for electronics can be daunting and this Essentials Catalog is designed to speed up the process. While this catalog only lists a fraction of what we sell, it's laid out the way most engineers design. The idea is that we highlight a product category, give you a taste for the best sellers, but also give you a web code that allows you to quickly jump from the catalog to the website.

A web code is nothing more than a three letter code that when entered into the search box at Jameco.com immediately brings up the full product category with all the products available, full specifications plus current pricing and availability. Skip the searching and go directly from catalog to website to speed up your process.

Many customers also find that by registering on Jameco.com they can create numerous different shopping lists of products that they buy again and again, further speeding up the buying process.



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Microcontrollers & Semiconductors

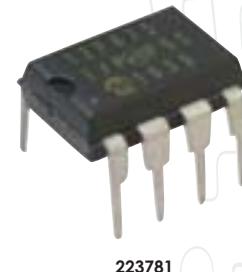
Flash-Based CMOS Microcontrollers

CMOS Flash-based 8-bit microcontrollers are packed with Microchip's powerful PIC MCU architecture. Powerful and easy to program.



Over 130 products available online. Use Web Code: PAV

Part No.	Product No.	Package	Speed	ROM	I/O Lines	1	10
145040	PIC12C508A-04/P	DIP-8	4MHz	512	5	\$.99	\$.89
223790	PIC12F629-I/P	DIP-8	20MHz	1k	6	\$.99	.89
223781	PIC12F675-I/P	DIP-8	20MHz	1k	6	\$.99	.89
145111	PIC16F84A-04/P	DIP-18	4MHz	1k	13	\$ 3.69	\$ 3.49
312733	PIC16F88-I/P	DIP-18	20MHz	4k	16	\$ 2.75	\$ 2.55
2127523	PIC16F690-I/P	DIP-20	20MHz	7k	18	\$ 1.95	\$ 1.79
247038	PIC16F877A-I/P	DIP-40	20MHz	8k	33	\$ 4.95	\$ 4.75
248031	PIC18F452-I/P	DIP-40	40MHz	32k	34	\$ 6.25	\$ 5.95



223781

Additional products, availability and specifications visit [Jameco.com](http://jameco.com) and enter the Web Code in the product search box

74LS Series

Manufacturer may vary

Part No.	Product No.	Package	Description	1	10	100
46252	74LS00N	DIP-14	Quad 2-input pos. NAND gate	\$.79	\$.69	\$.49
46287	74LS02N	DIP-14	Quad 2-input pos. NOR gate .....	.49	.39	.25
46316	74LS04N	DIP-14	Hex inverter .....	.59	.49	.29
46375	74LS08N	DIP-14	Quad 2-input pos. AND gate .....	.49	.45	.33
46404	74LS10N	DIP-14	Triple 3-input pos. NAND gate .....	.69	.59	.39
47466	74LS32N	DIP-14	Quad 2-input pos. OR gate .....	.49	.39	.27
47790	74LS47N	DIP-16	BCD-to-7 seg. decoder/driver	\$ 1.59	\$ 1.39	\$ 1.15
48004	74LS74N	DIP-14	Dual D type flip-flop .....	.49	.39	.25
48063	74LS83N	DIP-16	4-bit binary full adder	\$ 2.95	\$ 2.59	\$ 2.29
48119	74LS90N	DIP-14	Asynchronous decade counter	\$ 1.95	\$ 1.59	\$ 1.45



DIP-14

Over 140 products available online. Use Web Code: NBS

CD4000 Series

Manufacturer may vary

Part No.	Product No.	Package	Description	1	10	100
12562	CD4001	DIP-14	Quad 2-input NAND gate	\$.45	\$.39	\$.25
12597	CD4007	DIP-14	Dual complimentary pair plus inverter ..	.45	.39	.25
12634	CD4011	DIP-14	Quad 2-input OR gate .....	.45	.39	.25
12677	CD4013	DIP-14	Dual D-type flip-flop .....	.45	.35	.22
12749	CD4017	DIP-16	Decade counter/divider .....	.45	.35	.22
13055	CD4049	DIP-16	Hex inverting buffer/converter .....	.45	.39	.25
13186	CD4066	DIP-14	Quad bilateral switch .....	.45	.39	.25



TO-3/2

Over 100 products available online. Use Web Code: WAA

Microcontrollers

Manufacturer may vary

Part No.	Product No.	Package	Description	1	10	100
204089	AT89C4051-24PU	DIP-20	4k flash, 24MHz, 15 I/O	\$ 1.49	\$ 1.39	\$ 1.25
323133	ATMEGA16-16PU	DIP-40	6k flash, 16MHz, 32 I/O	\$ 4.49	\$ 4.25	\$ 3.95
2151312	ATTINY85-20PU	DIP-8	8k flash, 20MHz, 6 I/O	\$ 1.95	\$ 1.75	\$ 1.49
168920	AT89C52-24PC	DIP-40	8k flash, 24MHz, 21 I/O	\$ 4.95	\$ 4.49	\$ 3.95
2139111	ATMEGA328P-PU	DIP-28	32k flash, 8-bit, 20MHz	\$ 2.95	\$ 2.59	\$ 2.29



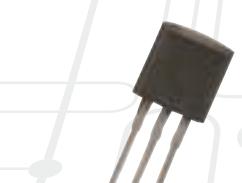
TO-220/3

Over 130 products available online. Use Web Code: PAV

Voltage Regulators

Manufacturer may vary

Part No.	Product No.	Pkg./Pins	Description	1	10	100
23544	LM317K	TO-3/2	1.5A adjustable positive (1.2V-37V)	\$ 6.95	\$ 6.25	\$ 5.59
23579	LM317T	TO-220/3	1.5A adjustable positive (1.2V-37V)	.39	.29	.22
51182	78L05	TO-92/3	5V, 100mA positive .....	.25	.22	.17



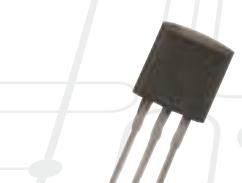
TO-92/3

Over 200 products available online. Use Web Code: TAC

Op Amps

Manufacturer may vary

Part No.	Product No.	Pkg./Pins	Description	1	10	100
245673	LM308AH	TO-99	Precision op amplifier	\$ 4.95	\$ 4.49	\$ 3.95
23683	LM324N	DIP-14	Low power quad op amplifier .....	.39	.29	.17
22971	LF356N	DIP-8	JFET input (wide band) .....	.79	.69	.49
24539	LM741CN	DIP-8	Single general purpose op amplifier .....	.45	.39	.25
33195	TL072CP	DIP-8	General purpose dual op amplifier .....	.69	.59	.39



Over 750 products available online. Use Web Code: WAD

Grab Bags & Component Kits



JAMECO ValuePro



DALLAS SEMICONDUCTOR



Grab Bags

Over 50 products available online. Use Web Code: GBS

Part No.	Product No.	Description	1	10
17857	GB100	200 assorted ceramic disk capacitors	\$6.95	\$5.95
17911	GB102	100 assorted electrolytic capacitors: radial, axial, snap, 85°C, 105°C, ±20%	9.95	8.95
18278	GB174	100 assorted 1/4W to 3/4W linear, single and multiturn POTS (100 to 5MΩ)	12.95	11.49
18041	GB110	100 assorted LEDs and lamps (T1 & T1-3/4 round and rectangular)	6.95	6.25
135280	GB108LB	400 assorted TTL series DIP and SMD (SOIC) (74, 74ALS, 74F, 74HC, 74HCT, 74LS, 74S)	39.95	35.95
18235	GB165	50 assorted switches (toggle, pushbutton, rocker, slide, DIP)	9.95	8.95
1810072	GB210	10 piece gear set, black plastic T10, T20, T30, T40, T50 with bushings	6.95	6.25
135423	GB140LB	300 assorted 4-40, 6-32, 8-32 round/hex, aluminum/steel, spacers/standoffs	29.95	26.95
135263	GB191LB	100s of assorted electronic components, ICs, passives, electromechanical	19.95	17.95

Component Cabinet Kits

Over 45 products available online. Use Web Code: CKS

7400 Series IC Kit

Includes 350 pcs. (30 Types) 7400 (TTL) Integrated Circuits

20 each	10 each				
7400	7402	7416	7432	74121	74157
7404	7405	7417	7438	74123	74160
7406	7408	7420	7447	74132	74174
7407	7410	7427	7485	74151	74175
7474	7414	7430	74107	74153	74279

Part No.	Description	1	5
84953	350 pcs. 7400 series IC kit	\$219.95	\$199.95

74LS00 Series IC Kit

Includes 420 pcs. (35 Types) 74LS00 (TTL) Integrated Circuits

20 each	10 each	10 each	10 each	10 each
74LS00	74LS05	74LS73	74LS125	74LS193
74LS02	74LS10	74LS75	74LS139	74LS240
74LS04	74LS11	74LS85	74LS151	74LS244
74LS08	74LS14	74LS86	74LS155	74LS245
74LS32	74LS20	74LS90	74LS157	74LS273
74LS74	74LS30	74LS93	74LS174	74LS373
74LS138	74LS47	74LS123	74LS175	74LS374

84961	420 pcs. 74LS series IC kit	\$169.95	\$153.95
130391	Refill for 84961 (420 pcs.)	154.95	139.95

Linear IC Kit

Includes 480 pcs. (40 Types)

20 each	10 each	10 each	10 each	10 each
LM317T	TL072CP	LM337T	LF412CN	ULN2803A
LM324N	TL074CN	LF353N	LMC555CN	NE5532N
LM339N	TL082CP	LF356N	LM556N	7808T
LM741CN	TL084CN	LM358N	LM723CN	78L12CZ
LM555CN	MAX232CPE	LM386N-1	LM1458N	7815T
7805T	LM301N	LM386N-3	DS1488N	7905T
78L05CZ	LM308N	LM393N	DS1489N	7912CT
7812T	LM311N	LF411CN	ULN2003AN	7915CT

84988	480 pcs. (40 types) Linear IC kit	\$199.95	\$179.95
130411	Refill for 84988 (480 pcs.)	184.95	169.95

Additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

JAMECO ValuePro

Schwab's Electronic Component School Selection

\$88.55
Value



Jameco's nine most popular Grab Bags are all individually bagged. North Dakota Engineer Loren Schwab recommended this selection of products as standard components for your workbench. He also recommended a 20-drawer component cabinet with labels (P/N 319600, see Web) for storage.

Includes: Ceramic and electrolytic capacitors, diodes, transistors, potentiometers, LEDs, 1/4W resistors, switches, spacers and standoffs.

Over 50 products available online. Use Web Code: GBS

Part No.	Product No.	Description	Wt. (lbs.)	1	10
163213	GB197	Schwab's School Selection	2.2	\$69.95	\$63.95

3 LEVELS OF SAVINGS

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LEDs

High Power LEDs with Heat Sink

- Superior high-flux output and high luminance
- Lambertian or 'High Dome' LED has a high hemispherical dome with a wider 140° viewing angle
- Represents Star form factor with heat sink
- High dome series projects a wider and clearer light beam
- ESD protection

LIGITEK

MCD



Over 15 products available online. Use Web Code: HPL

2096843

2006908

Part No.	Mfr.	Mfr. Part No.	Power (W)	Color	Volt. @ Curr. (Vf @ If)	Luminous Flux (lm)	Viewing Angle	Pricing		
								1	10	50
2096843	MCD	MCDL-L20-350HPCWS	1	White	3.2 @ 0.35A	90	140°	\$5.95	\$5.49	\$4.95
2006908	Ligitek	L-HP3PW	3	White	3.2 @ 1A	120	90°	5.95	5.49	4.95

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Standard-Output LEDs

Light up your world with these LEDs. Choose from a variety of colors, sizes and luminosity.



Fig. 1



Fig. 2



Fig. 3

Over 150 products available online. Use Web Code: FAF

* Order in multiples of 10

Part No.	Fig.	Emitting Color	Lens Feature	LED Size	Typical Vf	Typical mcd	Wavelength nm	Pricing		
								1	10	100
333851	1	Red	Red diffused	T1	1.8	65	660	*	\$12	\$10
94553	1	Red/Green	White diff. bi-color/bi-state ¹	T1	2.6	3/1.2	697/565	*	.19	.15
175679	1	Green	Green transparent	T1	2.2	129	565	*	.15	.12
333383	2	Blue	Blue diffused	T1	3.8	50	466	.59	.49	.39
94511	1	Red	Red diffused (XC556RB)	T1 1/4	2.3	3	697	*	.15	.12
333973	3	Red	Red diffused	T1 1/4	1.7	75	660	*	.12	.10
2238303	1	Pink	Water clear	T1 1/4	3.2	5000	440	.39	.35	.29
334182	1	Red/Green	White diff. bi-color/solid state ¹	T1 1/4	1.7	1.2/4.5	697/565	*	.19	.17
34825	1	Yellow	Yellow diffused	T1 1/4	2.3	12	585	*	.15	.12
34761	3	Green	Green diffused (XC556Y)	T1 1/4	2.3	30	565	*	.15	.12
2152112	2	Hi-eff red	Red diffused	10mm	2.0	35	635	.59	.55	.49
2152121	2	Yellow	Yellow diffused	10mm	2.0	35	590	.59	.55	.49
2152104	2	Green	Green diffused	10mm	2.2	50	570	.59	.55	.49

¹ Reverse polarity to change color

Medium-Output LEDs

Over 25 products available online. Use Web Code: MBW

* Order in multiples of 10

Part No.	Fig.	Emitting Color	Lens Feature	LED Size	Typical Vf	Typical mcd	Wavelength nm	Pricing		
								1	10	100
98968	2	Blue	Blue clear (oval)	T1	3.2	550	470	\$39	\$35	\$29
334764	1	White	Water clear	T1	3.5	900	—	.99	.89	.75
333497	1	Red	Water clear	T1 1/4	1.5	720	660	*	.19	.15
206519	1	Red	Red transparent	T1 1/4	1.5	900	550	*	.19	.15
2129625	1	Purple	Water clear	T1 1/4	3.0	450	400	1.25	1.15	.99
2152155	2	Super red	Red diffused	10mm	1.8	600	660	.59	.55	.45

High-Output LEDs

Over 50 products available online. Use Web Code: RBJ

* Order in multiples of 10

Part No.	Fig.	Emitting Color	Lens Feature	LED Size	Typical Vf	Typical mcd	Wavelength nm	Pricing		
								1	10	100
2168421	1	Blue	Blue diffused	T1	3.4	5000	465	\$29	\$25	\$19
2174881	1	White	White diffused	T1	3.4	8000	—	*	.19	.15
333526	1	Red	Water clear	T1 1/4	1.5	2700	660	.25	.21	.19
333569	1	Yellow	Water clear	T1 1/4	1.7	2500	590	*	.15	.12
334502	1	White	Water clear	T1 1/4	3.5	5000	—	.99	.89	.79
2205341	2	White	Water clear	10mm	3.5	9000	—	1.09	.99	.89
2231523	2	Blue	Water clear	T1 1/4	3.3	6000	465	1.29	1.19	.95
2231515	2	Red	Water clear	T1 1/4	2.2	10,000	640	.59	.55	.49

RGB High-Output LEDs

Over 10 products available online. Use Web Code: RKK

Part No.	Fig.	Emitting Color	Lens Feature	LED Size	Typical Vf	Typical mcd	Wavelength nm	Pricing		
								1	10	100
2128500	1	R/G/B**	Water clear	T1 3/4	2.0/3.5/3.5	3k/5k/1k	628/525/470	\$2.49	\$2.25	\$1.95
2211119	1	R/G/B*	Water clear	T1 3/4	2.0/3.4/3.4	2k/3k/1.2k	625/525/470	1.75	1.59	1.39
2125181	1	R/G/B*	Water clear	T1 3/4	2.25/3.5/3.5	3.5k/4k/2k	625/525/470	2.49	2.25	1.95
2219575	2	R/G/B**	Diffused	10mm	2.0/3.2/3.2	700/800/400	625/525/470	.59	.49	.39

* Common Cathode

** Common Anode

Lamps, LED Displays & Panel Mount Indicators

AVAGO
TECHNOLOGIES

JAMECO ValuePro

LITEON

LIGITEK

Ledtech

MCD

Incandescent Lamps and Holder



Fig. 1 Fig. 2 Fig. 3

10 products available online. Use Web Code: DBH

Part No.	Mfr. Part No.	Fig.	Description	Volts	Amps	MSCP	1	10	100
209390	14	1	G3 1/2 miniature screw	2.47	0.3	0.5	\$65	\$59	\$49
141073	2182	2	T1 3/4 wire terminal	14	0.08	0.34	.49	.45	.39
141066	2200-R	2	T1 3/4 wire terminal	5	0.06	0.05	.44	.39	.34
2237562	E10	3	Lamp holder base w/ screw terminals	—	—	—	1.95	1.75	1.55

7-Segment LED Displays

Over 70 products available online. Use Web Code: PBW

Single-Digit LHDP/RHDP



Single-Digit RHDP



2-Digit RHDP



4-Digit RHDP



Part No.	Mfr. Part No.	# of Digits	Bus Polarity*	Lit Color	Pins	Decimal Point†	1	10	100
24782	LSD3211-11	1	CC	Red	10	LHDP/RHDP	\$99	\$89	\$75
24740	LSD3221-11	1	CA	Red	11	LHDP/RHDP	.99	.89	.75
17209	GNS-5011BH-11	1	CA	Red	10	RHDP	1.09	.99	.89
335090	UA5651-11-R	1	CA	Red	10	RHDP	1.09	.99	.89
334862	UC5621-11	1	CC	Green	10	RHDP	1.09	.99	.89
24715	LDD5121-20	2	CA	Red	18	RHDP	1.59	1.39	1.19
2227989	LTC-2623WC	4	CA	Red	16	RHDP	2.49	2.25	1.95

*CC: Common Cathode, CA: Common Anode

†LHDP: Left Hand Decimal Point, RHDP: Right Hand Decimal Point

LED Bar Graph Arrays

8 products available online. Use Web Code: LBW



334529



Part No.	Mfr. Part No.	Char. Height	Illuminated Color	Pins	# of Elements	1	10	100
697477	LTA-1000HR	0.2"	High Efficiency Red	20	10	\$1.39	\$1.25	\$1.09
334529	UL1000-HR RRAK	0.2"	Red	20	10	1.39	1.25	1.09
697469	LTA-1000G	0.2"	Green	20	10	1.39	1.25	1.09

LED Dot Matrix Displays

8 products available online. Use Web Code: HAV



2132349



Part No.	Mfr. Part No.	Char. Height	Illuminated Color	Pins	Array Polarity*	1	10	100
2005497	LTP-757G	0.7"	Green	12	5 x 7 CC/AR	\$2.95	\$2.59	\$1.95
2132349	LD788B5-SS22	0.8"	High Efficiency Red	16	8 x 8 CC/AR	3.95	3.59	2.95
32951	TIL311†	0.27"	Red	11	4 x 7 Hex	24.95	22.49	19.95

*CC: Cathode Column, AR: Anode Row

†With decoder driver

Additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

JAMECO ValuePro

LED Panel Mount Indicators



- Easy panel installation
- Panel/status/instrument indicators

141111/141129/141137: Chrome housing

Over 20 products available online. Use Web Code: SOL

141111 141129/141137 637183

Part No.	Cross Ref. No.	LED Size	Color	Dimensions (in.)			Mtg. Hole	Vf @ If	Pricing		
				L	A	B			1	10	100
141111	L9225RD	T1	Red	.56	.34	.25	.23"	2V @ 20mA	\$1.09	\$.99	\$.85
141129	L913RD	T1	Red	.56	.39	.32	.24"	2V @ 20mA	1.25	1.15	.99
141137	L917RD \$	T1 3/4	Red	.70	.55	.47	.31"	2V @ 20mA	1.25	1.09	.99
637183	UT2U1G-H113-R801-W05†	T1 3/4	Green	.55	.55	.55	.24"	12V @ 10mA	1.09	.99	.89
2158936	UT2U1W-H113-R801-1739*	T1 3/4	White	.55	.55	.55	.24"	12V @ 30mA	1.09	.99	.89
2230563	XPG1LCBDO1M12VW6*	10mm	White	.83	6.0	6.0	.55"	14V @ 8.6mA	3.95	3.49	2.95
2230571	XPG1LCBDO1D12VW6*	10mm	Blue	.83	6.0	6.0	.55"	14V @ 8.6mA	3.95	3.49	2.95
2230580	XPG1LMD01D12VW6*	10mm	Red	.83	6.0	6.0	.55"	14V @ 8.6mA	3.95	3.49	2.95

†Has internal resistor to run 12V @ 10mA

*Has 5.5" wire leads

§ Additional panel mounting hardware, P/N 2182602



Order Online at www.Jameco.com

Capacitors

Resin Dipped Solid Tantalum Capacitors ($\pm 10\%$) 85°C

- Flame retardant coating
- Operating temperature: -55°C to +85°C

Over 60 products available online. Use Web Code: VAE

Part No.	Value (μF)	Voltage (V)	Size (mm) D x H x L.S.	1	10	100
33486	0.1	35	4.5 x 7.0 x 5.2	\$.35	\$.25	\$.19
33507	0.22	35	4.5 x 7.0 x 5.0	.39	.29	.25
33662	1	35	4.5 x 7.0 x 2.7	.35	.25	.19
545641	1	35	4.3 x 7.0 x 2.5	.59	.49	.45
33736	2.2	35	5.0 x 8.0 x 2.5	.49	.45	.35
94060	10	16	4.6 x 7.5 x 3.2	.45	.35	.25
94078	10	25	5.5 x 9.5 x 2.8	.55	.45	.39
94094	22	16	5.5 x 9.5 x 4.1	.69	.59	.49
94123	47	16	5.2 x 8.2 x 2.0	1.25	1.09	.99

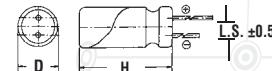


Additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

Aluminium Radial-Lead Polarized Electrolytic Capacitors ($\pm 20\%$)

- Leakage current (20°C): after 1 min. - 0.03CV or 4 μA , whichever is greater
- after 2 min. - 0.01CV or 3 μA , whichever is greater

Over 135 products available online. Use Web Code: CCE



85°C

* Order in multiples of 10

Part No.	Cross Ref. No.	Value (μF)	Volt. (V)	Size (mm) D x H x L.S.	1	10	100	500
94212	5R10/25	10	25	4 x 5 x 1.5	*	\$.19	\$.12	\$.09
29891	R10/50	10	50	5 x 11 x 2	*	.15	.09	.07
330676	RA47/450	47	450	18 x 30 x 7.5	1.25	1.09	.99	.89
93761	R100/25	100	25	6 x 11 x 5.0	*	.09	.07	.05
93841	R1000/50	1000	50	13.5 x 25.8 x 5.5	.59	.49	.35	.29
93850	R4700/25	4700	25	16 x 31 x 7.5	.99	.89	.69	.59

Over 100 products available online. Use Web Code: HAA

105°C

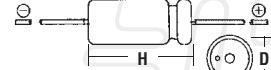
* Order in multiples of 10

Part No.	Cross Ref. No.	Value (μF)	Volt. (V)	Size (mm) D x H x L.S.	1	10	100	500
158327	R22B35	22	35	5 x 11 x 2	*	\$.07	\$.05	\$.04
608032	UPL1J101MHH6	100	63	13 x 15 x 5	.25	.19	.15	.09
158289	R470B25	470	25	10 x 16 x 5	.35	.29	.25	.19
158298	R1000B25	1000	25	10 x 17 x 5	.45	.39	.35	.25
609705	UVZ1V222MHD	2200	35	16 x 26 x 7.5	.79	.69	.59	.49

Aluminum Axial-Lead Electrolytic Capacitors ($\pm 20\%$) 85°C

- Leakage current (20°C): after 2 min. - 0.02CV or 2 μA , whichever is greater

Over 35 products available online. Use Web Code: GAA



Part No.	Cross Ref. No.	Value (μF)	Volt. (V)	Size (mm) D x H	1	10	100	500
10882	A10/50	10	50	6 x 12	\$.49	\$.45	\$.39	\$.37
331433	AB22/450	22	450	16 x 26.5	1.75	1.49	1.09	.99
10911	A100/50	100	50	8 x 20	.79	.75	.69	.59
93658	A2200/35	2200	35	16 x 30	1.49	1.25	1.09	.95

Monolithic Radial Ceramic Capacitors ($\pm 20\%$) 85°C

- Operating temperature range: +10°C to +85°C

Over 25 products available online. Use Web Code: JZB

* Order in multiples of 10

Part No.	Cross Ref. No.	Value (μF)	Volt. (V)	Size (mm) W x TxHxL.S.	1	10	100	500
25507	MD.01	0.01	50	3.5 x 2 x 3 x 2.5	*	\$.19	\$.15	\$.12
25523	MD.1-R	0.1	50	6 x 2 x 4 x 5.1	*	.19	.15	.10
25540	MD.22	0.22	50	6 x 2 x 4.5 x 5.1	.29	.25	.19	.15
544956	SR305E105MAA	1.0	50	3.8 x 2.5 x 3.8 x 5.1	.45	.35	.25	.19



Ceramic Disc Capacitors ($\pm 20\%$) 85°C

- Dielectric withstanding voltage: 2.5 times rated voltage for not < 1 second

Over 40 products available online. Use Web Code: HBW

Order in multiples of 10

Part No.	Cross Ref. No.	Value (μF)	Volt. (V)	Tolerance	Dia. (mm)	10	100	1000
15190	DC.001	0.001	50	20	6	\$.10	\$.08	\$.06
15229	DC.01	0.01	50	20	6	.12	.09	.07
151116	DC.1/25	0.1	25	20	6	.15	.12	.09
15270	DC.1	0.1	50	20	8	.19	.15	.12



Pots, Knobs, Photocells & Resistors



JAMECO ValuePro

Bourns®

Potentiometers

Over 620 products available online. Use Web Code: TDF

1/2-Watt 24mm Linear Taper ($\pm 20\%$)

- 300° rotation ($\pm 5^\circ$)
- 500V max.
- Shaft: 0.25"Dia. x 0.335"l

Qty	1	10	100
Price	\$1.55	\$1.39	\$1.25

Part No. Mfr. Part No. Ohms

255485	RV24AF-10-15R1-B13	1k
255493	RV24AX-10-15R1-B23	2k
255514	RV24AF-10-15R1-B53	5k
255522	RV24AF-10-15R1-B14	10k
255549	RV24AF-10-15R1-B54	50k
255557	RV24AF-10-15R1-B15	100k
255696	RV24AF-10-40R1-B15	100k
255565	RV24AF-10-15R1-BF5	250k
255573	RV24AF-10-15R1-B55	500k
255582	RV24AF-10-15R1-B16	1M



1/2-Watt 24mm Linear Taper ($\pm 10\%$)

- Non-rotation key, non-slotted shaft end
- Shaft: 0.25"Dia. x 0.335"l

Qty	1	10	100
Price	\$1.35	\$1.19	\$1.09

Part No. Cross Ref. No. Ohms

29197	P5K	5k
29082	P10K	10k
29103	P100K	100k
29066	P1MEG	1M



Instrumentation Knobs (1/4" Shaft Dia.)

Over 40 products available online. Use Web Code: EBD



265009



264990/264955



264892/264883



138393



290125



162481

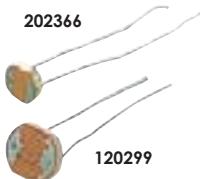


138482/138502

Cadmium Sulfide (CdS) Photocells

Over 10 products available online. Use Web Code: CBG

Part No.	Rating		Resistance (Ω)		Size (in.)	Lead Length	Pricing		
	Vp	mW	Dark	Light			1	10	100
202366	150	90	300k	4k	.14 x .17	1.02"	\$1.49	\$1.35	\$1.19
202403	150	100	200k	3k	.17 x .20	1.02"	1.15	.99	.89
202420	150	100	500k	16k	.17 x .20	1.02"	1.15	.99	.89
120299	350	400	300k	8k	.37 x .43	1.44"	1.79	1.59	1.45
202454	350	400	1M	12k	.37 x .43	1.44"	1.79	1.59	1.45



Additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box



1/4-Watt Carbon Film Resistors ($\pm 5\%$)

* Values marked below also come in 10 packs

* Order in increments of 10* or 100

Qty	*10	100
Price	\$0.099	\$0.04

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
690216	2.2	690718	* 240	690865	* 1.0k	691024	* 4.7k	691243	* 39k
690380	* 10	690726	* 270	690881	* 1.2k	691032	* 5.1k	691260	* 47k
690540	* 47	690734	* 300	690902	* 1.5k	691067	* 6.8k	691307	* 68k
690566	56	690742	* 330	690929	1.8k	691104	* 10k	691340	* 100k
690620	* 100	690769	390	690937	* 2.0k	691121	12k	691382	* 150k
690646	* 120	690785	* 470	690945	* 2.2k	691147	* 15k	691420	* 220k
690662	* 150	690793	* 510	690961	* 2.7k	691171	* 20k	691462	* 330k
690689	* 180	690806	* 560	690970	3.0k	691180	* 22k	691500	* 470k
690697	* 200	690822	* 680	690988	* 3.3k	691201	* 27k	691585	* 1.0M
690700	* 220	690849	820	691008	* 3.9k	691227	* 33k	691817	* 10M

3 LEVELS OF SAVINGS

NAME BRANDS	HOUSE BRANDS	SPECIAL BUY
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Order Online at www.Jameco.com

Wire & Cable

Stranded & Solid Hook-Up Wire Kits

Keep hook-up wire kits handy at the work bench for easy storage, organization and distribution. These kits are packaged in a cardboard dispenser box except P/N 2159189. Replacement kits and individual spools are also available for easy refilling.

JAMECO
ValuePro



2153705



2159189

Over 30 products available online. Use Web Code: PAF

Part No.	AWG	Strands	Volt.	Wire Length	†Colors	1	5
2206272	22	7 x 30	300V	100'	0-5	\$39.95	\$35.95
2153705	22	Solid	600V	25'	0-5	16.95	14.95
2159189	22*	Solid	600V	100'	0-5	36.95	33.95
2183752	22	Solid	600V	100'	0-5	39.95	35.95
2206281	18	16 x 30	300V	25'	0-5	24.95	21.95

† 0 = Black, 1 = Red, 2 = White, 3 = Green, 4 = Yellow, 5 = Blue

* Without dispenser box

Additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

100' Stranded & Solid Hook-Up Wire

Over 180 products available online. Use Web Code: JAS

- Stranded: 300V, Tin-plated copper, PVC insulated, VW-1, -40°C to +105°C (UL 1569)
- Solid: 600V, tinned copper, PVC insulated, VW-1, -55°C to +105°C (MIL-W-16878/1, type B)

36792



734514

Kynar™ Wire Wrap – 30 AWG

Over 10 products available online. Use Web Code: NAC

AWG	Stranding	Black P/N	Red P/N	White P/N	Green P/N	Yellow P/N	Blue P/N	Price
26	7 x 34	734511	734503	734510	734506	734505	734514	\$6.95
24	7 x 32	734411	734403	734410	734406	734405	734414	7.95
22	Solid	36792	36856	36881	36822	36920	36768	7.95
18	16 x 30	734111	734103	734110	734106	734105	734114	15.95
16	26 x 30	734011	734003	734010	734006	734005	734014	17.95



CAT 5e



Modular



Power/Speaker



Heat Shrink Tubing



Flat Ribbon



USB Cable

CAT 5e Network Cables

- 8P8C, 24 AWG, UTP, 350MHz with boot

Over 10 products available online. Use Web Code: CAE

Part No.	Length	Color	Price
201734	3 ft.	Blue	\$1.75
201751	15 ft.	Blue	3.95
201718	15 ft.	Black	3.95
201726	25 ft.	Black	6.49

Modular Printer Sharing Cable

5 more products available online. Use Web Code: EBF

Part No.	Length	Type	Price
115554	7 ft.	RJ11-6P4C	\$1.75
115617	7 ft.	RJ12-6P6C	1.95

2-Conductor Power/Speaker Cable

- Black with polarity stripe, 300V, 24 AWG

6 more products available online. Use Web Code: VAL

Part No.	Length	Color	Price
2206299	25 ft.	Red/Black	\$10.95
100280	100 ft.	Black	9.95

Heat Shrink Tubing & Kits

- Approx. shrink ratio of 2:1, rated to 135°C

Over 50 products available online. Use Web Code: HST

Part No.	Description	Price
419127	0.063" ID (before), 4', black	\$.99
419143	0.093" ID (before), 4', black	.99
419160	0.125" ID (before), 4', black	1.05
419186	0.187" ID (before), 4', black	1.29
2095963	154 pc. 4" black, assorted dia.	17.95
2095947	154 pc. 4" color, assorted dia.	19.95

28 AWG Flat Ribbon Cable

- 300V, stranded copper, PVC insulated, 0.05" pitch

Over 25 products available online. Use Web Code: FRC

Part No.	Conductors	Color	Length	Price
643794	10	Gray	10'	\$3.95
643831	16	Gray	10'	4.95
643874	20	Gray	10'	5.95
639672	10	Rainbow	10'	5.95
643532	16	Rainbow	10'	7.95
643698	40	Rainbow	10'	26.95

USB 2.0 Cables

Over 40 products available online. Use Web Code: NAV

Part No.	Description	Price
326482	A male to A female, 3', beige	\$1.39
222608	A male to B male, 6', black	1.25
222010	A male to B male, 6', black	1.95
222026	A male to B male, 15', black	2.49
2135064	A male to micro-B male, 3', black	1.95
673694	A male to mini 5-pin male, 6', black	2.29

Computer Cables

Over 25 products available online. Use Web Code: CCS

Part No.	Description	Price
228401	3.5mm stereo to 2xRCA male, 6'	\$1.95
132346	DB9 F/F serial cable, 6', beige	3.95
25701	DB9 M/F extension, 6', beige	4.49
148516	DB9 M/F extension, 10', beige	5.95
31722	DB9F to DB25M serial, 6', beige	3.95
175291	DB25 M/F extension, 3', black	3.95
181295	DB37 M/F extension, 6', gray	6.95

Connectors & Power Jacks

Switchcraft®
ADAM TECH
STEREN
JAMECO ValuePro
OST

Audio Jacks

Part No.	Description	1	10	100
2095437	3.5mm stereo audio jack, panel mount, terminal	\$1.29	\$1.15	\$0.99
2201607	3.5mm audio jack, 4-conductor, panel mount	1.95	1.75	1.49
281738	1/4" mono phone audio jack, 2-conductor, single open	2.95	2.59	2.29
281746	1/4" mono phone audio jack, 3-conductor, double open	2.95	2.59	2.29
172340	RCA jack, panel mount, red	1.09	.95	.85



Over 70 products available online. Use Web Code: AJS

Modular Plugs and Jacks

Part No.	Description	* Order in multiples of 10		
Part No.	Description	1	10	100
79290	6 positions, 4 contacts, plug, for round stranded wire	\$.15	\$.12	
79273	6 positions, 6 contacts, plug, for flat stranded wire	.29	.25	.22
79281	8 positions, 8 contacts, plug, for flat stranded wire	.45	.39	.35
119343	8 positions, 8 contacts, plug, for round solid wire	.45	.39	.35
151766	6 pos., 4 contacts, jack, side entry, standard latch, panel stops	.65	.59	.55
124039	6 pos., 6 cont., jack, top entry, standard latch, panel stops, 6" leads	1.25	1.09	.99
115837	6 pos., 6 cont., jack, side entry, standard latch, panel stops	.85	.75	.65
115844	8 pos., 8 cont., jack, side entry, standard latch, no panel stops	.79	.69	.59

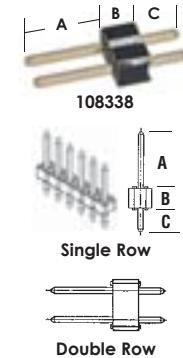


Over 25 products available online. Use Web Code: MOJ

Straight Through-Hole Solderable Headers

• Size: A (0.23"), B (0.1"), C (0.12")

Part No.	Row	Pins	Plating	1	10	100
108338	Single	2	Gold	\$.25	\$.19	\$.15
109576	Single	3	Gold	.39	.35	.29
153700	Single	6	Gold	.29	.25	.19
68339	Single	36	Gold	.55	.45	.35
160882	Single	40	Gold	.79	.69	.65
115035	Double	6	Gold	.49	.45	.35
67821	Double	10	Gold/Tin	.69	.59	.49
118456	Double	14	Gold	.49	.45	.39
53480	Double	20	Gold	.69	.65	.59
117197	Double	80	Gold	1.39	1.19	.99



Over 50 products available online. Use Web Code: SHB

D-Subminiature Connectors

- Metal
- Solder cup



Part No.	Contacts	Gender	1	10	100
15748	9	Male	\$.89	\$.79	\$.69
15771	9	Female	.85	.69	.55
15035	15	Male	1.05	.95	.85
15078	15	Male	1.16	.89	.85
15052	15	Female	1.05	.95	.85
15115	25	Male	1.35	1.09	.99
15157	25	Female	1.35	1.09	.99

Terminal Blocks



Part No.	Description	1	10	100
2094506	Top screw, 2 terminals	\$.35	\$.29	\$.25
2094485	Top screw, 2 terminals	.39	.35	.29
2120647	Top screw, 2 terminals	.39	.38	.25
160793	Top screw, 3 terminals	.79	.69	.59
161067	45° angle screw, 2 terminals	.75	.55	.49

Over 70 products available online. Use Web Code: XBD

 Additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

Power Jacks

Over 30 products available online. Use Web Code: BAM

These jack connectors are an essential part of your project if you want to supply power to bring it to life.



151555

Part No.	Mfr. Part No.	Contact Pin Dia. x OD	Dimension L x W x D (mm)	Pricing		
				1	10	100
101179	PP014	2.1 x 5.5mm male	10.9 x 9.0 x 14.3	\$.59	\$.55	\$.49
101178	PP014G	2.1 x 5.5mm male	10.9 x 9.0 x 14.3	.69	.59	.45
137673	PP013	2.1 x 5.5mm male	10.9 x 9.0 x 14.5	.65	.55	.39
151590	DPJ-021A	2.1 x 5.5mm male	18.0 L x 12.6 Dia.	1.49	1.25	.99
151555	JX16183	2.1 x 5.5mm male	21.0 L x 8.0 Dia.	1.75	1.59	1.39
159611	CS1014A-R	2.1 x 5.5mm male	57.5 L x 12.6 Dia.	1.95	1.75	1.59
2151136	HD2388C	2.1 x 5.5mm male	12.4 L x 7.7 Dia.	1.75	1.59	1.39
151563	DPJ-026A-R	2.5 x 5.5mm male	15.1 L x 8.0 Dia.	1.95	1.75	1.49

3 LEVELS OF SAVINGS

NAME BRANDS

HOUSE BRANDS

SPECIAL BUY

 Order Online at www.Jameco.com

Motors

Standard & Continuous Rotation Servo Motors

Use servo motors for precise position control in your robotic projects and control with PWM signals.

Over 10 products available online. Use Web Code: FVD

Part No.	Mfr. Part No.	Torque (oz-in)	Rated Voltage	RPM @ VDC	Price
2150416	RS001A	20.8 @ 4.8	4.8 - 6.0	100 @ 4.8	\$6.95
2214601	RA001B	27.7 @ 4.8	4.8 - 6.0	125 @ 4.8	4.95
395760	HS-322HD	41.6 @ 4.8	4.8 - 6.0	52 @ 4.8	13.95
283021	900-00005	43.1 @ 6.0	4.0 - 6.0	45 @ 60	17.95
395786	HS-422	45.8 @ 4.8	4.8 - 6.0	47 @ 4.8	13.95
2128201	1248	45.8 @ 4.8	4.0 - 6.0	71 @ 4.8	12.95
283039	900-00008	47 @ 6.0	4.0 - 6.0	50 @ 6.0	13.95
2124971	HS-645MG	107 @ 4.8	4.8 - 6.0	41 @ 4.8	29.95



2150416

Additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

1.5VDC – 12VDC Motors

Part No.	Product No.	Fig.	Nominal Volt. (V)	Voltage Range (V)	Speed (RPM)	Torque (g-cm)	Price
231917	FE-260-2670	1	1.5	1.5-3	3700	10.5	\$2.95
2158442	RF-500TB-18280-R	2	3	1-6	2104	13.4	2.95
238458	RF-300CA-11400-R	3	3	1-3	2400	4.3	3.49
1951449	QJT-260-18130	1	3	1.5-4.5	4780	10	2.95
231925	FE-260-2295	1	3	1.5-4.5	6850	14	2.75
154923	ST130-22770-38	4	3	1.5-3	13200	10.3	2.49
211246	RC-260RA-2670	5	4.5	3-4.5	15290	21.8	2.75
2173044	RF-500TB-12560-R	6	6	6-12	2100	11	3.95
232144	FF-050S-11170-R	9	7	1.5-9	8500	7.0	2.95
2209203	MD5BN-12200	7	12	2-20	3203	36.05	2.95
238473	RF370CA-15370	8	12	3-12	4840	187	3.49
232022	MD5-1885-R	7	12	6-18	9820	53.5	3.49
232047	MD5-2445	7	12	6-12	19850	79.7	4.95



Over 60 products available online. Use Web Code: FBN

Gear Head Motors

Part No.	Product No.	Nominal Volt. (V)	Voltage Range (V)	Speed (RPM)	Torque (g-cm)	Gear Ratio	Price
253534	38-010	12	4.5-12	24	7500	250:1	\$16.95
253471	38-004	12	4.5-12	120	1100	50:1	15.95
162191	HNGH12-1324Y-R	12	4.5-12	190	300	30:1	17.95
155822	GH12-1830Y-P-R-M	12	4.5-12	4.5	4500	1000:1	21.95
155821	GH12-1830Y-P-R	12	4.5-12	4.5	4500	1000:1	24.95
155839	GH12-1641T-L-R	12	3-12	20	3000	270:1	25.95



253534

Over 30 products available online. Use Web Code: KBB

Vibrating Motors

Part No.	Product No.	Op. Voltage (VDC @ mA)	Voltage Range (V)	Speed (RPM)	Lead Length	Body Size (Dia." x L")	Price
175062	OTL-7AL(1.3V)	1.3 @ 62	0.7 - 1.6	7000	0.7"	0.28 x 0.67	\$3.95
2209035	Z4SL2A0280131	1.3 @ 85	1.1 - 1.6	10000	1.0"	0.18 x 0.39	2.95
256365	7ZK692-R	3.0 @ 60	2.4 - 3.0	6500	4.7"	0.28 x 0.66	3.95
256314	6ZK053-R	3.0 @ 75	1.6 - 3.6	8500	1.2"	0.23 x 0.39	3.25
256331	6ZK261-R	3.0 @ 75	2.4 - 3.0	8500	PC term.	0.27 x 0.48	3.25



155822

Over 10 products available online. Use Web Code: NBC

Bipolar & Unipolar Stepper Motors

Part No.	Product No.	Drive System	Rated Volt. (V)	Step Angle (±5%)	Holding Torque (g-cm)	Body Size (Dia." x L")	Price
237825	25BY4801	Unipolar	5	7.5°	110	0.98 x 0.56	\$9.95
238538	42BYGH404-R	Unipolar	12	1.8°	3200	1.67 x 1.89	21.95
162027	57BYG084-R	Unipolar	12	1.8°	6000	2.2 x 2.0	35.95
237490	39BYG001-R	Bipolar	5	1.8°	1800	1.54 x 1.34	21.95
155460	42BYG023-R	Bipolar	12	1.8°	2100	1.7 x 1.3	21.95



237825

Over 10 products available online. Use Web Code: UBN



OMRON

Honeywell

SHIMANO

HIGHLY

JAMECO ReliaPro

NM

Miniature Basic Switches

Part No.	Mfr. Part No.	Contact Form	Contact Rating	1	10	100
2076244	V3-23-D8	SPST-NO	5A @ 125VAC	\$1.25	\$99	\$89
2117333	VM-05S-03D0-Z	SPDT-NC	5A @ 125VAC/250VAC	1.75	1.49	1.25
159572	VS10N051C	SPDT-NC	10A @ 125VAC/250VAC	1.95	1.75	1.49
159581	VS10N021C2	SPDT-NC	10A @ 125VAC/250VAC	1.99	1.79	1.55
187805	V-10G3-1C24-K	SPDT-NC	10A@250VAC, 0.1A@125VDC	2.95	2.59	2.29



2076244



71643



106112

Over 150 products available online. Use Web Code: UEM

Pushbutton Switches

Part No.	Mfr. Part No.	Contact Form	Contact Rating	Term. Type	1	10	100
71643	G1B210-R	SPST off-(on)	1A @ 120VAC	PC rt. angle	\$2.75	\$2.49	\$2.25
164582	112-R13-502MA-B/B	SPST off-(on)	1.5A @ 125VAC	Solder	2.75	2.49	2.25
2131274	R1400A	SPST off-(on)	2A @ 48VDC	Screw	3.59	3.25	2.75
26623	R18-29A-ROHS	SPST off-(on)	3A @ 125VAC	Solder lugs	.89	.79	.75
174414	R13-510A	SPST off-(on)	3A @ 125VAC	Solder lugs	.99	.89	.79
106112	DS-412-RED	SPST off-(on)	3A @ 125VAC	Solder lugs	1.95	1.75	1.49
121305	A101-WH	SPDT on-(on)	3A @ 120VAC	Solder lugs	3.75	3.49	3.15



Over 130 products available online. Use Web Code: UBU

Toggle Switches

*Subminiature **Miniature

Part No.	Mfr. Part No.	Contact Form	Contact Rating	1	10	100
72161	DS-40T1B1A1-1*	SPST on-off	5A@120VAC, 1.5A@250VAC	\$1.55	\$1.39	\$1.25
106067	SWP124*	SPST on-on	0.4VA max.	1.99	1.79	1.65
76523	T100T1B1A1QN**	SPST on-off	5A@125VAC, 2A@250VAC	1.55	1.29	1.15
317236	1MS1T1B1M1QE**	SPDT on-on	5A@120VAC, 2A@250VAC	1.55	1.29	1.15
21979	T201T1B1A1QN**	DPDT on-on	5A@120VAC, 2A@250VAC	1.59	1.45	1.29
21952	T203T1B1A1QN**	DPDT on-off-on	5A@120VAC, 3A@250VAC	1.79	1.65	1.49
76241	GTS001	SPST on-off	4A@125VAC, 2A@250VAC	1.95	1.75	1.49
76232	KNS-1 W/6" LEAD	SPST on-off	6A@125VAC, 3A@250VAC	1.95	1.75	1.55



Over 120 products available online. Use Web Code: TSW

Rocker Switches

Part No.	Mfr. Part No.	Contact Form	Contact Rating	1	10	100
577221	RRA22H3BBBN	SPST on-off	12A@125VAC, 10A@250VAC	\$1.49	\$1.25	\$1.09
316022	R13-66A-R-02-R	SPST on-off	15A@125VAC, 8A@250VAC	.95	.85	.75
316014	R13-66A-B-02-R	SPST on-off	16A@125VAC, 10A@250VAC	.95	.85	.75
617473	35-695-BU	SPDT (on)-off-(on)	16A@125VAC, 16A@250VAC	3.95	3.59	3.29
316111	R13-73A2-B-02	DPST on-off	12A@125VAC, 6A@250VAC	1.39	1.25	1.09



Over 110 products available online use Web Code: VBU

Tactile Switches

• Button color: black • 4 pins

Part No.	Mfr. Part No.	Contact Form	Contact Rating	Size (L" x W" x D")	1	10	100
149948	BTS-1102B-2	SPST (on)	20mA @ 15VDC	.24" x .24" x .15	\$35	\$29	\$25
122973	DTS1212-R	SPST (on)	20mA @ 15VDC	.47" x .47" x .18	.39	.35	.29
153252	G/S(PT-6601)-R	SPST (on)	50mA @ 12VDC	.24" x .24" x .15	.35	.29	.25
119011	KIT1IBICM	SPST off-(on)	20mA @ 15VDC	.24" x .24" x .15	.35	.29	.25



Over 35 products available online. Use Web Code: QBF

Additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

Keylock Switches

If you want to add some security to your project or possessions, these keylock switches are exactly what you need.

2220613



3 more products available online. Use Web Code: RAN

Part No.	Mfr. Part No.	No. Flat, Dia.	Length	Terminal	Voltage/Current	1	10	100
2220613	S126-2	2, 0.42"	0.91"	Barrel	125VAC/3A	\$5.59	\$5.05	\$4.59
105832	IG-406-2001,2007,2024	2, 0.66"	1.48"	0.25" quick conn.	125VAC/6A	5.95	5.39	4.79
196649	IG-406D-2341	2, 0.66"	1.48"	0.25" quick conn.	125VAC/6A	5.95	5.39	4.79
2167710	KC77362	4, 1.1"	1.42"	Solder	110VAC/1A	1.95	1.75	1.49
2172025	S116-1	1, 0.42"	1.2"	Solder	125VAC/1A	3.59	3.25	2.95
2181028	RM201-0	2, 1.16"	1.9"	Panel Mount	125VAC/6A	7.95	6.95	6.25
2229757	Z-KEYLOCK	0.645"	1.0"	OD threaded barrel	—	2.95	2.59	2.25

3 LEVELS OF SAVINGS

NAME BRANDS	HOUSE BRANDS	SPECIAL BUY
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Relays, Buzzers, Sensors & Keypads

Keypads

Enforce security with your devices using these keypads to input codes or combinations from the user.



196171



2131055



152063

Over 15 products available online. Use Web Code: XBA

Part No.	Description	1	10	50
196171	2x8 matrix keypad, 9-pin .100 header, 12VDC @ 30mA, 4.6 x 1.7 x 0.4, 500,000 life cycles	\$16.95	\$15.49	\$13.95
2131055	4x4 matrix keypad, 8-pin solder header, 24VDC @ 20mA, 2.5 x 2.6 x 0.4, 1,000,000 life cycles	7.25	6.49	5.75
152063	4x4 matrix keypad, 9-pin .100 header, 24VDC @ 10mA, 2.6 x 2.9 x 0.4, 500,000 life cycles	16.95	14.49	12.95

Additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

Relays

Over 165 products available online. Use Web Code: DMC

Protect your circuits with these relays to switch on or off depending on the application.



171460



174432



99311



2081414



175602



1937612

Part No.	Manufacturer	Contact Form	Contact Rating		Coil Ohms	1	10	50
			SPST-NO	10A @ 12 VDC				
171460	Rayex	SPST-NO	40 A @ 12 VDC		80	\$2.95	\$2.65	\$2.39
174432	Rayex	SPDT	15A @ 120VAC; 15A @ 24VDC		400	1.95	1.65	1.45
99311	Aromat (NAIS)	DPDT	0.3A @ 110VAC; 1A @ 30VDC		720	3.19	2.89	2.59
139977	Value Pro	DPDT	1A @ 120VAC; 2A @ 30VDC		125	2.99	2.65	2.45
2081414	KEST	DPDT	1A @ 125VAC; 2A @ 28VDC		128	2.75	2.49	2.25
175602	Value Pro	4PDT	5A @ 240 VAC; 5A @ 30VDC		650	6.15	5.69	5.19
1937612	P & B	SPDT	10A @ 240 VAC; 8A @ 24VDC		652	1.75	1.49	1.25

Buzzers

Over 25 products available online. Use Web Code: MMC

Add sound alerts to your applications to ensure user input confirmation or timer functionality is correctly implemented.



Part No.	Fig.	Op. Voltage (V @ mA)	Voltage Range (V)	Frequency (Hz)	Sound (dB)	Pricing		
						1	10	100
76065	1	5 @ 30	4 - 7	2300	85	\$2.95	\$1.75	\$1.59
138740	2	5 @ 40	3 - 8	2400	85	1.25	1.09	.99
24872	3	9 @ 30	6 - 12	400	85	1.79	1.55	1.29
138713	4	12 @ 7	3 - 16	4000	80	1.99	1.79	1.55
249498	5	12 @ 25	4 - 16	2900	95	3.95	3.59	3.29
76021	5	24 @ 20	1.5 - 28	3200	95	4.09	3.69	3.39
123538	5	24 @ 20	4 - 28	2900	80	3.55	3.19	2.85

Sensors

Over 30 products available online. Use Web Code: SMC

Detect various characteristics of the surrounding environment with these diverse set of sensors.



150551



2128260



512401



2157351



136654

Part No.	Description	1	10	50		
					1	10
150551	Flex sensor, maximum resistance of 30kΩ to 40kΩ proportional to the degree of flexing	\$12.95	\$11.49	\$10.49		
2128260	Force sensing resistor able to sense applied force from 1 oz to 22 lbs. 0.5" sensing area	7.95	7.19	6.49		
512401	Gear tooth speed sensor, commercial grade, 4.5 - 25VDC, sink output, 1" barrel	29.95	26.95	24.95		
2157351	Sonar range finder, high performance, 0 - 25.1 foot range	36.95	33.95	31.95		
136654	Ultrasonic sensor set for sensing motion or distance. Frequency 40kHz ± 1.0kHz	6.95	6.25	5.59		

High Decibel Output Piezo Sirens

The purpose of an alarm is to make an emergency situation known and there's no better way than a really loud siren.



2203063



207993

Over 15 products available online. Use Web Code: PSS

Part No.	Op. Voltage (V @ mA)	Voltage Range (V)	Frequency (Hz)	Sound (dB)	Dimensions (L" x W" x H")	Pricing		
						1	10	100
2203063	12 @ 85	6 - 15	2500 - 2800	105	3.3 x 2.2 x 1.3	\$5.95	\$5.49	\$4.95
207993	12 @ 250	6 - 16	3500	105	2.3 x 1.8 x 1.6	4.75	4.25	3.75
2131223	12 @ 200	6 - 15	3500	107	2.2 x 1.7 x 1.7	4.39	3.95	3.75

Fans & Accessories



JAMECO ValuePro



120 & 220VAC Tubeaxial Fans

- Agency approvals: UL/CSA/TUV/CE
- Sizes range from 60mm to 172mm with varying thickness
- Lowest noise level in the industry

Over 55 products available online. Use Web Code: ABJ



303467



102884



100918

Part No.	Manufacturer Part No.	Voltage (VAC)	Size W x H x D (mm)	Air Flow (CFM)	Bearing	Connection	Pricing	
							1	10
212582	UF15PC11BWH-R	115	172 x 150 x 51	226	Ball	12" leads	\$32.95	\$29.95
213867	UF-60D11HBWH-R	120	60 x 60 x 30	10.2	Ball	12" leads	17.95	16.49
146078	FP-108AX-S1-B-R(115)	120	80 x 80 x 25	23	Ball	12" leads	15.95	14.49
300389	UF80A11BTH-R	120	80 x 80 x 38	30	Ball	Terminals	15.95	14.49
303467	SF11592A-1092HBL.GN	120	92 x 92 x 25	37	Ball	12" leads	12.95	11.95
1707163	SP101A-1123HBL.GN	120	120 x 120 x 38	107	Ball	12" leads	15.95	14.49
106586	CMWLTH FP-108-1-S1/T-R	120	120 x 120 x 38	105	Sleeve	Terminals	12.95	11.95
102884	SP100A-1123XBT-R	120	120 x 120 x 38	117	Ball	Terminals	14.95	13.95
100918	SF23080A/2083HSL.GN	220	80 x 80 x 38	30	Sleeve	12" leads	15.95	13.95
2230424	FP-108EX(S-1)	220	172 x 150 x 51	210	Ball	Terminals	29.95	26.49

5V to 24VDC Brushless Fans

- Agency approvals: UL/CSA/TUV/CE
- 2-wire & 3-wire (speed sensor) available

2133886



688597



2211021



Over 325 products available online. Use Web Code: DCF

Part No.	Manufacturer Part No.	Voltage (VDC)	Size W x H x D (mm)	Air Flow (CFM)	Bearing	Connection	Pricing	
							1	10
1708457	KDE0504PEB3-8 (MS)	5	40 x 40 x 6.8	3.5	Ball	6" leads	\$4.95	\$4.49
2133886	AD0405LX-G70	5	40 x 40 x 10	4.7	Hypro	11" leads	5.95	5.39
212741	KDE1235PFB2-8	12	35 x 35 x 10	4.5	Ball	3" w/ conn.	6.95	6.25
2133915	AD0412MX-G70	12	40 x 40 x 10	5.7	Hypro	11.5" leads	4.95	4.49
1708473	KDE1204PFVX11.MS.A	12	40 x 40 x 10	9.5	Vapo	12" leads	5.95	4.95
1928118	AD0412HB-C50	12	40 x 40 x 20	10.5	Ball	12" leads	8.95	7.95
139602	AD0512HS-D71-LF	12	50 x 50 x 15	12	Sleeve	12" leads	7.95	7.49
1946025	EC6010M12CA	12	60 x 60 x 10	15.5	Ball	9" leads ¹	8.95	7.95
2150766	AD0612HB-A72GL	12	60 x 60 x 25	23.2	Ball	12" leads ²	7.95	6.95
2095365	AD0812XX-D71	12	80 x 80 x 15	39.4	Hypro	11" leads	10.95	9.95
688597	3110GL-B4W-B19-PA1	12	80 x 80 x 25	28.2	Ball	12" w/ conn ¹	5.95	5.35
2205181	AFB0812M-F00	12	80 x 80 x 25	30.8	Ball	12" leads ¹	5.95	5.35
2209001	9GV0812P4K03	12	80 x 80 x 25	74.8	Ball	12" leads ³	7.95	6.95
154641	TA350DC-M33422-16	12	92 x 92 x 25	48	Ball	12" leads	9.95	8.95
2170927	AD1212US-A71GL-LF	12	120 x 120 x 25	99.12	Sleeve	12" leads	8.95	7.95
2167605	AD0424HB-G70-LF	24	40 x 40 x 10	6.7	Ball	12" leads	9.95	8.95
2158514	MB40202V2-0000-A99	24	40 x 40 x 25	7.7	Vapo	12" leads	9.95	8.95
189861	JF0625B2M-005-065R	24	60 x 60 x 25	18	Ball	10" leads	8.95	7.95
1928071	AD0624HB-A70GL	24	60 x 60 x 25	25	Ball	12" leads	8.95	7.95
136161	JF0825B2H-005-065R	24	80 x 80 x 25	39.2	Ball	12" leads	9.95	8.95
2134150	AQ0824UB-A71GL	24	80 x 80 x 25	50	Ball	12" leads	11.95	10.95
2158303	EE9225B1-0000-A99	24	92 x 92 x 25	51.5	Dual Ball	12" leads	10.95	9.95
2211021	4124GX	24	120 x 120 x 38	94	Sleeve	Terminals	9.95	8.95
694524	JF1238B2MR-R	24	120 x 120 x 38	101.3	Ball	9" leads	15.95	14.95

¹ 3 leads; speed sensor

² 3 lead; locked rotor protection

³ 4 leads with speed sensor, PWM control

Additional products, availability and specifications visit Jameco.com and enter the Web code in the product search box

Fan Guards and Power Cord

An often overlooked accessory for tubeaxial fans are guards. Metal wire and plastic guards protect the blades from interference by outside objects or mis-guided fingers. Don't forget the power cord if your fan is equipped with a terminal connection.



687666



196817



25735

Part No. Size (mm) Description

Part No.	Size (mm)	Description	1	10	100
687666	60	Steel fan guard (black anodized)	\$.85	\$.79	\$.75
31924	80	Steel fan guard (chrome) .....	.69	.65	.59
196817	120	Plastic fan guard with mesh filter (black)	2.19	2.09	1.95
25735	120	Steel fan guard (chrome) .....	.79	.75	.69
1952548	—	2' pigtail power cord with 45° plug, 18 AWG	1.59	1.35	1.09

Over 25 Fan Guards available online. Use Web Code: UAR

4 more Power Cords available online. Use Web Code: GAE

3 LEVELS OF SAVINGS

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13

Wall Adapters

AC-to-DC Regulated Linear Wall Adapters

Over 10 products available online. Use Web Code: WAZ

JAMECO ReliaPro



Female

162996



Part No.	Mfr. Part No.	Voltage (VDC)	Current (mA)	Output Conn. ID x OD (mm)	Approvals	Pricing			
						1	10	50	100
1953612	DDU050100	5	1000	2.1 x 5.5 F	UL/CUL	\$10.95	\$9.95	\$8.95	\$7.95
168605	DBU0501000	5	1000	2.5 x 5.5 F	UL/CUL	10.95	9.95	8.95	7.95
1953639	DCU09050	9	500	2.1 x 5.5 F	UL/CUL	10.95	10.49	9.95	8.95
220898	DDU120020	12	200	2.1 x 5.5 F	UL/CUL	8.95	7.95	6.95	6.25
162996	DDU120050	12	500	2.1 x 5.5 F	UL/CUL	11.95	10.95	9.95	8.95
170245	DDU120100	12	1000	2.1 x 5.5 F	UL/CUL	14.95	13.49	11.95	10.95
174861	DFU240050	24	500	2.1 x 5.5 F	UL/CUL	14.95	13.49	11.95	10.95
174879	DCU090025	24	500	2.5 x 5.5 F	UL/CUL	14.95	13.49	11.95	10.95

Additional products, availability and specifications visit [Jameco.com](http://jameco.com) and enter the Web Code in the product search box

AC-to-AC Wall Adapters

- Black case
- 6-foot output cord

JAMECO ReliaPro



Over 40 products available online. Use Web Code: ABQ

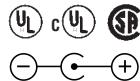
2231574

10102

Part No.	Mfr. Part No.	Output Rating		Output Conn. ID x OD (mm) Female/Male	Agency Approvals	Pricing			
		Voltage (VAC)	Current (mA)			1	10	50	100
2231574	ACU090100-3.5M	9	1000	3.5 M	UL/CUL	\$8.95	\$7.95	\$6.95	\$6.25
101258	ACU120050	12	500	2.1 x 5.5 F	UL/CUL	8.95	7.95	6.95	5.95
10081	ACU120100J0920	12	1000	2.1 x 5.5 F	UL/CUL	9.95	8.95	7.95	7.29
100167	AC120100D0531	12	1000	2.5 x 5.5 F	UL/CUL	9.95	8.95	7.95	7.29
10428	ACU120100Z9121	12	1000	3.5 M	UL/CUL	8.95	7.95	6.95	6.29
167151	ADU120150E1012	12	1500	2.1 x 5.5 F	UL/CUL	11.95	10.95	9.95	8.95
307838	ADU120160H4120	12	1600	2.5 x 5.5 F	UL/CUL	12.95	11.95	10.95	9.95
2227604	GPU481202000WA	12	2000	2.5 x 5.5 F	UL/CUL	14.95	13.49	11.95	10.49
100108	ADU160100Z5401	16	1000	2.1 x 5.5 F	UL/CUL	11.95	10.95	9.95	8.95
2231591	ACU180050	18	500	Stripped & tinned	UL/CUL	8.95	7.95	6.95	6.25
87581	ADU240050	24	500	2.1 x 5.5 F	UL/CUL	9.95	8.95	7.95	6.95
140599	ADU240100d5531	24	1000	2.1 x 5.5 F	UL/CUL	11.95	10.95	9.95	8.95
10102	ADU240100E0460	24	1000	3.5 M	UL/CUL	11.95	10.95	9.95	8.95

AC-to-DC Unregulated Linear Wall Adapters

- Black case
- 6-foot output cord
- Center positive



Over 80 products available online. Use Web Code: UAP

JAMECO ReliaPro

147707

Part No.	Mfr. Part No.	Output Rating		Output Conn. ID x OD (mm) Female/Male	Agency Approvals	Pricing			
		Voltage (VDC)	Current (mA)			1	10	50	100
147707	DCU060080C6961	6	800	2.1 x 5.5 F	UL/CUL	\$8.95	\$7.95	\$6.95	\$5.95
133891	DBU090030C112	9	300	2.1 x 5.5 F	UL/CUL	6.95	5.95	5.49	4.95
15561	DCU090050A2011	9	500	3.5 M	UL/CSA	7.95	6.95	6.25	5.49
100175	DCU090060Z6652	9	600	2.5 x 5.5 F	UL/CUL	7.95	6.95	6.25	5.49
100095	DBU120020	12	200	2.1 x 5.5 F	UL/CUL	5.95	5.49	4.95	4.49
114825	DCU120050D4740	12	500	Stripped & tinned	UL/CUL	7.95	6.95	6.25	5.49
15368	DCU120050Z8693*	12	500	2.1 x 5.5 F	UL/CUL	7.95	6.95	6.25	5.49
102496	DCU120050E8601	12	500	2.1 x 5.5 F	UL/CUL	7.95	6.95	6.25	5.49
102277	DCU120050UE2631	12	500	2.5 x 5.5 F	UL/CUL	7.95	6.95	6.25	5.49
117479	DDU120080E6451	12	800	2.1 x 5.5 F	UL/CUL	8.95	7.95	6.95	6.25
2197484	DDU120100	12	1000	2.1 x 5.5 F	UL/CUL	7.95	6.95	6.25	5.95
136881	DFU120150K1961	12	1500	2.1 x 5.5 F	UL/CUL	12.95	11.49	9.95	8.95
101291	DDU120150	12	1500	2.5 x 5.5 F	UL/CUL	12.95	11.49	9.95	8.95
102285	DDU240040Z7860	24	400	2.1 x 5.5 F	UL/CUL	8.95	7.95	7.29	6.49
191556	DDU240050E5852	24	500	2.5 x 5.5 F	UL/CUL	9.95	8.95	7.95	7.29

*Center negative

Wall Adapters, Power Supplies & Cord Adapters

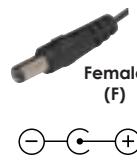


JAMECO ReliaPro



AC-to-DC Switching Wall Adapters

- Black case
- Center positive
- 6-foot output cord
- Agency approvals: UL/CUL
- Efficiency: 60% – 80%
- Female output connector



2209158

Over 120 products available online. Use Web Code: CDZ

Part No.	Mfr. Part No.	Output Rating		Output Connector ID x OD (mm)	Input (VAC @ Hz)	Pricing			
		Voltage (VDC)	Current (A)			1	10	50	100
2209158	EPAS-101W-05#	5	2.0	2.1 x 5.5 F	100-240 @ 50-60	\$7.95	\$6.95	\$5.95	\$5.49
379623	GS25U05-P1J*	5	4.0	2.1 x 5.5 F	100-240 @ 50-60	12.49	11.49	10.49	9.49
2230133	GQ05-060050-CU#**	6	0.5	2.1 x 5.5 F	100-240 @ 47-63	8.95	7.95	6.95	6.25
252753	S08AB09005001#	9	0.5	2.1 x 5.5 F	100-240 @ 47-63	10.95	9.95	8.95	7.95
2232825	SPS121	12	1.0	2.1 x 5.5 F	100-240 @ 50-60	8.95	7.95	6.95	6.25
2233983	DSA-12PFT-12FU#**	12	1.0	2.1 x 5.5 F	100-240 @ 47-63	10.95	9.95	8.95	7.95
252833	S15AC12012501L5190#	12	1.25	2.1 x 5.5 F	100-240 @ 47-63	13.95	12.95	11.95	10.95
1952855	GS18U12-P1J*	12	1.5	2.1 x 5.5 F	90-264 @ 47-63	11.95	10.95	10.49	9.49
1950497	GQ30-120200-BU#	12	2.0	2.1 x 5.5 F	100-240 @ 47-63	15.95	14.49	12.95	11.49
380156	GS25U12-P1J	12	2.08	2.1 x 5.5 F	90-264 @ 47-63	12.49	11.49	10.49	9.49
2076341	S15AD24006201L5260#	24	0.63	2.1 x 5.5 F	100-240 @ 47-63	11.95	10.95	9.95	8.95
1953671	MPC-2400107	24	1.0	2.5 x 5.5 F	100-240 @ 50-60	14.95	13.49	11.95	10.95

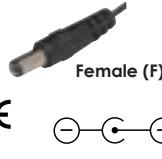
*4-foot cord

#Slimline

**Level VI efficiency

AC-to-DC Regulated Switching Table-Top Power Supplies

- Black case
- Center positive
- 3-wire AC input
- 100-240VAC
- Agency approvals: UL/CUL/TUV/CE
- Efficiency: 74% – 93.5%
- AC power cord not included (recommend P/N 38050)



2229992

Over 215 products available online. Use Web Code: DDZ

Part No.	Mfr. Part No.	Output Rating		Output Power (W)	Output Conn. ID x OD (mm) Female/Male	Input (VAC @ Hz)	Pricing	
		Voltage (VDC)	Current (A)				1	10
1940571	GS25A05-P1J	5	4.0	20	2.1 x 5.5 F	90-264 @ 47-63	\$12.49	\$11.49
1952345	GSM40A12-P1J	12	3.3	39.6	2.1 x 5.5 F	90-264 @ 47-63	16.95	15.49
1952370	GS60A-12-P1J	12	5.0	60	2.1 x 5.5 F	90-264 @ 47-63	18.95	16.95
2078291	GS90A-12-P1M	12	6.67	80	2.5 x 5.5 F	90-264 @ 47-63	28.95	24.95
2171559	GS40A15-P1JU	15	2.67	40	2.1 x 5.5 F	90-264 @ 47-63	16.95	15.49
2078320	GS90A15-P1M	15	6.0	90	2.5 x 5.5 F	90-264 @ 47-63	28.95	24.95
1940635	GS25A24-P1J	24	1.04	25	2.1 x 5.5 F	90-264 @ 47-63	13.95	12.95
2229992	KPL-060M-2.5VI	24	2.5	60	2.5 x 5.5 F	100-264 @ 50-60	19.95	17.95
2078338	GS90A24-P1J	24	3.75	90	2.5 x 5.5 F	90-264 @ 47-63	28.95	24.95
2135208	GS120A24-P1M	24	5.0	120	2.5 x 5.5 F	85-264 @ 47-63	39.95	35.95

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Power Cord Adapters

Complete products specifications available online. Use Web Code: ACR



2188545



2233991



2234003



2188553



Part No.	Mfr. Part No.	Description	1	10	50	100
2188545	YL-3215	IEC C14 plug to Nema 5-15R	\$3.95	\$3.59	\$3.29	\$2.95
2233991	YL-3412	IEC C6 plug to IEC C13 receptacle	3.95	3.59	3.29	2.95
2234003	YL-3114	IEC C8 plug to IEC C5 receptacle plug adapter	3.95	3.59	3.29	2.95
2234011	YL-3214	IEC C14 plug to IEC C5 receptacle plug adapter	3.95	3.59	3.29	2.95
2234020	YL-1113	NEMA 1-15P plug to IEC C7 receptacle plug adapter	3.95	3.59	3.29	2.95
2234038	YL-1212	NEMA 1-15P plug to IEC C13 receptacle plug adapter	3.95	3.59	3.29	2.95
2188553	YL-2215	IEC C13 to Nema 5-15P plug	3.95	3.59	3.29	2.95

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15

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- Full AC input range: 85-264VAC
- High efficiency, long life, high reliability



LRS-35

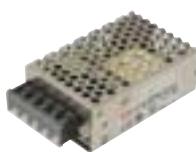
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Enclosed Switching AC-to-DC Power Supplies



SP-320



RS-25



RS-150



RSP-1500

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Part No.	Mfr. Part No.	Output Rating		Input (VAC @ Hz)	Ripple & Noise (mVp-p)	Load Reg. (±%)	Line Reg. (±%)	EFF. (%)	Pricing	
		Voltage (VDC)	Current (A)						1	10
123394	S-150-5	5	0-30	88-132 @ 47-63	150	0.5	0.5	78	\$34.95	\$31.95
244735	SP-320-5	5	0-55	88-264 @ 47-63	150	1.0	0.5	79	62.95	52.95
323300	RS-25-12	12	0-2.1	88-264 @ 47-63	120	0.5	0.5	79	9.49	7.95
123423	S-150-12	12	0-12.5	88-132 @ 47-63	180	0.3	0.3	82	36.95	32.95
323839	RS-150-12	12	0-12.5	88-132 @ 47-63	120	0.5	0.5	83	23.49	19.75
244743	SP-320-12	12	0-25	88-264 @ 47-63	150	0.5	0.3	86	62.95	52.95
323620	RS-75-24	24	0-3.2	88-264 @ 47-63	120	0.5	0.5	85	16.25	13.75
323855	RS-150-24	24	0-6.5	88-132 @ 47-63	120	0.5	0.5	86	23.49	19.75
194782	SP-200-24	24	0-8.4	85-264 @ 47-63	150	0.5	0.5	83	50.95	42.95
2101518	SP-240-24	24	0-10	88-264 @ 47-63	150	0.5	0.2	87	50.95	44.95
244752	SP-320-24	24	0-13	88-264 @ 47-63	150	0.5	0.2	87	62.95	52.95
147054	SP-500-24	24	0-20	88-264 @ 47-63	240	0.5	0.5	85.5	152.95	134.95
694938	RSP-1500-24	24	0-63	88-264 @ 47-63	150	0.5	0.5	90	296.95	249.95
190706	SP-500-27	27	0-5	88-264 @ 47-63	150	0.5	0.2	89	154.95	134.95
244770	SP-320-48	48	0-6.7	88-264 @ 47-63	240	0.5	0.2	89	62.95	52.95
161796	SP-500-48	48	0-10	88-264 @ 47-63	300	0.5	0.5	87	154.95	134.95
295929	SE-600-48	48	0-12.5	90-132 @ 47-63	200	0.5	0.5	88	76.95	66.95
694954	RSP-1500-48	48	0-32	90-264 @ 47-63	200	0.5	0.5	91	296.95	249.95
2108921	RSP-3000-48	48	0-62.5	90-132 @ 47-63	200	0.5	0.5	90.5	414.95	349.95

Open-Frame Switching AC-to-DC Power Supplies



PS-25



PS-45



PS-65



PPS-200

Over 375 products available online. Use Web Code: OSP

Part No.	Mfr. Part No.	Output Rating		Input (VAC @ Hz)	Ripple & Noise (mVp-p)	Load Reg. (±%)	Line Reg. (±%)	EFF. (%)	Pricing	
		Voltage (VDC)	Current (A)						1	10
148604	PS-25-12	12	0-2.1	85-264 @ 47-63	100	2.0	0.3	78	\$11.49	\$9.49
213728	PS-45-12	12	0-3.7	90-264 @ 47-440	100	2.0	1.0	76	12.75	10.49
148639	PS-65-12	12	0-5.2	90-264 @ 47-440	100	2.0	1.0	79	13.95	11.95
148647	PS-65-24	24	0-2.7	90-264 @ 47-440	100	2.0	1.0	80	13.95	11.95
668730	PPS-200-24	24	0-8.3	90-264 @ 47-63	150	1.0	0.5	89	53.95	44.95

DIN-Rail & LED Power Supplies

DIN-Rail Switching Power Supplies

- Short-circuit, overload, overvoltage protection
- Low cost, high reliability
- 100% full-load burn-in test
- Soft-start circuit, limiting AC surge current
- Universal AC input range
- Rail not included



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11

Over 100 products available online. Use Web Code: RBY

Part No.	Mfr. Part No.	Fig.	Voltage (VDC)	Current (A)	Power (W)	Input Voltage (VAC @ Hz/VDC)	Input Current @ Max Load	Pricing	
								1	10
2094952	DR-15-12	1	12	1.25	15	85-264 @ 47-63/120-370	0.88A(115V)/0.48A(230V)	\$12.95	\$10.95
1943334	MDR-20-12	2	12	1.67	20	85-264 @ 47-63/120-370	0.55A(115V)/0.35A(230V)	12.75	10.75
1943457	MDR-60-12	3	12	5	60	85-264 @ 47-63/120-370	0.55A(115V)/0.35A(230V)	18.49	15.49
212274	DR-120-12	4	12	10	120	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	38.95	31.95
2099366	SDR-120-12†	5	12	10	120	88-264/124-370 @ 47-63	1.4A(115V)/10.7A(230V)	49.49	41.75
1943385	MDR-20-24	2	24	1	24	85-264 @ 47-63/120-370	0.55A(115V)/0.35A(230V)	12.75	10.75
1943422	MDR-40-24	3	24	1.7	40.8	85-264 @ 47-63/120-370	1.1A(115V)/0.7A(230V)	16.95	14.49
192681	DR-4524	6	24	2	48	85-264 @ 47-63/120-370	1.5A(115V)/0.75A(230V)	18.95	16.49
1943465	MDR-60-24	3	24	2.5	60	85-264 @ 47-63/120-370	1.8A(115V)/1.0A(230V)	18.49	15.49
212282	DR-75-24	7	24	3.2	75	85-264 @ 47-63/120-370	2.0A(115V)/1.2A(230V)	31.49	25.95
1943490	MDR-100-240	8	24	4	90	85-264 @ 47-63/120-370	1.3A(115V)/0.8A(230V)	31.95	26.95
212266	DR-120-24	4	24	5	120	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	38.95	31.95
2099374	SDR-120-24†	5	24	5	120	88-264/124-370 @ 47-63	1.4A(115V)/10.7A(230V)	49.49	41.75
221892	DRP-240-24†	9	24	10	240	85-264 @ 47-63/120-370	2.8A(115V)/1.4A(230V)	58.95	49.95
2081086	SDR-240-24†	10	24	10	240	88-264/124-370 @ 47-63	2.6A(115V)/1.3A(230V)	82.95	70.49
2094944	SDR-480-24†	11	24	20	480	88-264/124-370 @ 47-63	2.6A(115V)/1.3A(230V)	132.95	112.49
221904	DR-120-48	4	48	2.5	120	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	38.95	31.95
221883	DRP-240-48	9	48	5	240	85-264 @ 47-63/120-370	3.5A(115V)/1.8A(230V)	58.95	49.95
2094936	SDR-240-48	10	48	5	240	88-132/176-264* @ 47-63	2.6A(115V)/1.3A(350V)	82.95	70.49

* Switch selectable † With Power Factor Correction

LED Enclosed Power Supplies

Over 1400 products available online. Use Web Code: LPP



LPV Series



HLG Series



LPC Series

Part No.	Mfr. Part No.	Output Rating		Input (VAC @ Hz)	Load Reg. (±%)	Line Reg. (±%)	Enclosure Rating	Pricing	
		Voltage (VDC)	Current (A)					1	10
2103169	LPV-60-12	9	0-1.4	90-264 @ 47-63	2.0	1.0	IP67	\$13.95	\$11.75
2102596	LPV-20-12	12	0-1.67	90-264 @ 47-63	2.0	1.0	IP67	8.75	7.49
2102158	HLG-240H-12A	12	0-5	90-264 @ 47-63	2.0	1.0	IP67	63.95	53.95
2103433	CLG-150-24	12	0-16	90-305 @ 47-63	2.0	0.5	IP65	47.95	39.95
2101315	LPC-60-1400	24	0-6.3	90-295 @ 47-63	0.5	0.5	IP67	13.95	11.75

Additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

100-Watt Outdoor-Rated LED Power Supplies

These constant-current and constant-voltage power supplies are ideal for LED lighting and moving sign applications. IP67 enclosures ensure they can be used in damp or wet locations.



Part No.	Mfr. Part No.	Voltage (VDC) @ Current (A)	Power (W)	Load Reg. (±%)	Line Reg. (±%)	Price
1585805	CLG-100-12	12 @ 5	60	2.0	1.0	\$46.40
1585856	CLG-100-15	15 @ 5	75	2.0	1.0	46.40
1585872	CLG-100-24	24 @ 4	96	2.0	1.0	46.40
1585750	CLG-100-36	36 @ 2.65	95.4	2.0	1.0	46.40
1585768	CLG-100-48	48 @ 2	96	2.0	1.0	46.40



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\$16.95

EXTECH
INSTRUMENTS

EX300



P/N 645626
\$59.95

EXTECH
INSTRUMENTS

EX430



P/N 1581177
\$94.95

Part No.	Mfr. Part No.	No. of Functions	Display Count	DC Voltage Ranges (V)	AC Voltage Ranges (V)	DC Current Ranges (A)	AC Current Ranges (A)	Resistance Ranges (Ω)
645618	MN35	10	2000	200mV - 600V	200V - 600V	200mA - 10A	—	200Ω - 20MΩ
355207	DVM850BL	9	2000	200mV - 100V	200V - 600V	200μA - 10A	—	200Ω - 2MΩ
2131127	DVM810	7	2000	200mV - 500V	200mV - 500V	200μA - 10A	—	200Ω - 2MΩ
220759	MAS830L	9	2000	200mV - 600V	200V - 600V	200μA - 10A	—	200Ω - 2MΩ
645626	EX330*	12	4000	0.1mV - 1000V	0.1mV - 750V	0.1μA - 10A	0.1μA - 10A	.1Ω - 40MΩ
1581177	EX430	11	4000	0.1mV - 1000V	0.1mV - 750V	0.1μA - 20A	0.1μA - 20A	.1Ω - 40MΩ
1537328	Fluke 115†	15	6000	600mV - 600V	600mV - 600V	6A - 10A	6A - 10A	600Ω - 40MΩ
1537336	Fluke 117*†	16	6000	600mV - 600V	600mV - 600V	6A - 10A	6A - 10A	600Ω - 40MΩ
2206061	DDM640	9	2000	200mV - 1000V	200mV - 750V	20mA - 10A	20mA - 10A	200Ω - 200MΩ
211650	MN26T	12	4000	400mV - 600V	400mV - 600V	400μA - 10A	400μA - 10A	400Ω - 40MΩ
185535	Fluke 179†	10	6000	600mV - 1000V	600mV - 1000V	60mA - 10A	60mA - 10A	600Ω - 50MΩ

* With non-contact voltage detector (100-600VAC range)

† With backlight

Digital & Analog Panel Meters

Over 75 products available online. Use Web Code: ADM

Determine the amount of units your applications output with great accuracy using these measurement meters.



2131135



2152323



316603



2095040



2095074

Part No.	Mfr. Part No.	Description	1	10
2131135	PMLCDL	3.5-digit digital LCD panel meter 9VDC operation	\$7.95	\$7.19
2152323	DFR0130-B	3-digit digital LED panel meter with 4.5V to 30V range with 1% accuracy	10.95	9.95
108388	PM-428	3.5-digit digital LCD panel meter with snap mount and no bezel	8.95	7.95
316603	AVM6015	Analog panel Meter 0-15VDC range, 2.4" x 1.8" x 1.3" size	7.95	7.19
315301	AIM60005	Analog panel meter 0-50μA, 2.4" x 1.8" x 1.3" size	7.95	7.19
316507	AIM6030A	Analog panel meter 0-30A range, 2.4" x 1.8" x 1.3" size	11.49	10.49
316638	AIM6030	Analog panel meter 0-30VDC range, 2.4" x 1.8" x 1.3" size	7.95	7.19
2095040	EMV-1200	3-digit signal powered LCD drill mountable panel voltmeter, 1.71" x 0.84" size	29.95	27.95
2095074	EMC-1500	3-digit digital LCD drill mountable panel hour meter, 1.71" x 0.84" size	34.95	31.95

Oscilloscopes

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These fully functional oscilloscopes are just what you need to analyze signal voltages over time, some with the extra functionality of logic and spectrum analyzers.



2205915



2205931



2187454



2207241



2244050

Part No.	Mfr. Part No.	Description	Price
2205915	GT-0005	Mixed signal plug-in DIP package, 2MSa/s, 2.42" OLED, 200kHz bandwidth	\$69.95
2205931	GT-0015	Mixed signal handheld, 2MSa/s, 2.42" OLED, 750mAH Li-ion, 200kHz bandwidth	117.95
2187454	PCSU200	PC-based scope, function generator, spectrum analyzer, 12MHz bandwidth	146.95
2217393	TOLO1241 P	USB PC based scope, 2.8" LCD display with built on signal generator	99.95
2207241	MSO-19	PC-based O-scope (9-CH), 8 logic analyzer & 1 pattern generator, 100 MHz	249.95
2137422	PCSGU250	All-in-1: Function generator, o-scope, transient recorder, Bode plotter, spectrum analyzer	199.95
2244050	SFG-1013	3 MHz Direct Digital Synthesis signal generator with 6-digit voltage display	189.95
2127339	HPS140I	Handheld Pocket Oscilloscope 40MS/s (probe included), upto 10 MHz, 1mV to 20V	141.95

Test Equipment & Panel Meters

Over 50 products available online. Use Web Code: HBK

FLUKE

115



P/N 1537328
\$179.99

FLUKE

117



P/N 1537336
\$199.99

ORIGIN

DDM640



P/N 2206061
\$34.95

EXTECH

INSTRUMENTS

MN26T



P/N 211650
\$44.95

FLUKE

179



P/N 185535
\$349.99

Capacitance Ranges (F)	Frequency Ranges (Hz)	Temperature Range		Diode Test	Continuity Test	Autorange	Size (H" x W" x D")	Pricing	
		°C	°F					1	5
—	—	-20 to 750	-200 to 1400	✓	✓		5.4 x 3.0 x 1.5	\$24.95	\$22.49
—	—	—	—	✓	✓		5.4 x 2.7 x 1.2	14.49	12.95
—	—	—	—	✓	✓		3.6 x 1.8 x 1.0	6.95	6.25
—	—	—	—	✓	✓		5.7 x 3.0 x 1.4	16.95	14.95
.001nF - 200μF	.001 - 10M	-50 to 1000	-58 to 1832	✓	✓	✓	5.7 x 2.9 x 1.6	59.95	54.95
.1nF - 100μF	.001 - 10	-20 to 750	-4 to 1382	✓	✓	✓	7.4 x 3.2 x 2.0	94.95	89.95
1000nF - 9999μF	99.99 - 50k	—	—	✓	✓	✓	6.3 x 3.3 x 1.9	179.99	174.95
1000nF - 9999μF	99.99 - 50k	—	—	✓	✓	✓	6.3 x 3.3 x 1.9	199.99	194.95
—	—	—	—	✓	✓	✓	7.7 x 3.7 x 2.2	34.95	31.95
4nF - 200μF	10 - 10M	0 to 760	0 to 1400	✓	✓	✓	4.8 x 2.4 x 1.6	44.95	39.95
1000nF - 9999μF	99.99 - 99.99k	-40 to 400	-40 to 752	✓	✓	✓	7.3 x 3.5 x 1.7	349.99	344.95

Logic & Benchtop Test Equipment

Over 55 products available online. Use Web Code: BLT



2145748



2130378



301971



301938



301955



197991



149930



2217115

Price

Part No.	Mfr. Part No.	Description		
2145748	DM-1150B	80,000-count benchtop LCD digital multimeter, 80MHz bandwidth, 50 measure functions	....	\$349.95
2130378	PS1503SBU	Single-output benchtop power supply, 15VDC @ 3A, 45W, 3.5-digit digital LCD	.....	89.95
301971	PSU130	Single-output benchtop power supply, 30VDC @ 5A, 150W, 4-digit digital LCD	.....	109.95
301938	HY3005	Single-output benchtop power supply, 30VDC @ 5A, 150W, 3-digit digital LCD	.....	149.95
301955	HY3005D-3	Multiple-output benchtop power supply, 0-30VDC @ 5A, 5VDC @ 3A, 195W, 3.5-digit digital LCD	....	299.95
197991	382213	Multiple-output benchtop power supply, 0-30VDC @ 3A, 5VDC @ 0.5A, 12VDC @ 0.5A, 98.5W, 3-digit digital LCD	.....	199.95
149930	LP3500	17MHz logic probe, min. pulse width: 30 ns, pulse flash time: 500ms, input impedance: 1MΩ	....	39.95
2217115	Logic Pro 16	16-input/channel logic analyzer includes flexible test lead set, micro-hook clips, USB cable, case	....	598.95

Test Leads

Over 60 products available online. Use Web Code: RAC



256832



77746



10444



77842



135299



Part No.	Mfr. Part No.	Description		
256832	CBB-069	BNC female to pigtail, 20 AWG, 2 wire, 1 black, 1 red, 7" long	.....	\$5.95 \$5.39
77746	FC-15B-R	Standard banana style multimeter test probes, 1 black, 1 red 42" long	.....	6.95 6.25
10444	GAL01	Alligator clip test leads, 24 AWG, 10 pc. assorted colors, 21" long	.....	5.95 5.39
77842	KLN-4-25-H/R	Stackable banana patch cords, 18 AWG, 10 pc. assorted colors, 9.8" long	.....	27.95 24.95
135299	SF-207A-R	Mini-clip test leads, 26 AWG, 5 pc. of assorted colors, 14" long	.....	10.95 9.95

Additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

3 LEVELS OF SAVINGS

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19

Lamps, Soldering Equipment & Accessories

Soldering Stations

Plain plug-in irons work well for quick fixes, but if you do a lot of soldering or work with different materials, you'll want a soldering station that allows precise temperature control.



Over 20 products available online. Use Web Code: GEJ

2099219

Part No.	Mfr. P/N	Description	Price
2130626	VTSS5U	50-watt analog station, adjustable temp. (374°F to 896°F), with iron holder & sponge pad	\$22.95
217461	WES51	50-watt analog station, adjustable temp. (350°F to 850°F) Includes stand, sponge, screwdriver tip	\$129.95
2174733	LF-389D	60-watt mini digital station, adjustable temperature (302°F to 896°F)	\$59.95
		Includes solder iron holder and metal wool tip cleaner	
2099219	LF-1680	80-watt digital solder and SMD rework tweeler station, adjustable temp. (392°F to 896°F)	\$124.95
2128032	LF-852D	600-watt digital hot air SMD rework station, adjustable temperature (212°F to 896°F)	\$199.95
		Includes base unit, stand, sponge, surface mount tweeler iron, tweeler stand	

Additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

Magnifying Lamps

Over 20 products available online. Use Web Code: DAW



2131119

2120330

2238004

2196924

2210600

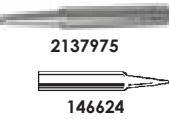
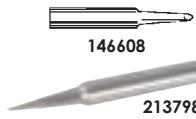
2210597

Part No.	Diopter	Lamp Size	Length	Shape	Type	# of Bulbs	Watts	Color	Wt. (lbs.)	1	5
2131119	1.8, 2.3, 3.7, 4.8	5mm	—	Head Visor	LED	2	<1	Black	0.33	\$6.95	\$6.59
149981	3	5" Dia	45"	Circular	INC	1	22	White	7.3	59.95	54.95
2120330	3	7" Dia	30"	Circular	LED	4	3.4	White	21	119.95	113.95
2238004	3 & 5	5" Dia	32"	Circular	LED	45	9.4	White	5.7	89.95	81.95
2196924	5	5" Dia	36"	Circular	LED	90	5.5	White	6.8	99.95	89.95
2210600	5	5" Dia	39"	Circular	LED	45	9.4	White	5.4	89.95	81.95
197456	5	5" Dia	40"	Circular	INC	1	22	White	7.1	69.95	62.95
2210597	5*	7" Dia	36"	Circular	LED	102	16.8	White	10.8	239.95	224.95

*Also contains 5 UV LEDs

†INC = Incandescent

Soldering Tips for Weller Products



45 more products available online. Use Web Code: NAB

Solder

- Compositions:
73576/141786/32117: 60% tin, 40% lead
170457: 99.3% tin, 0.7% copper
- Size 0.031"



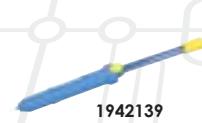
Over 30 products available online. Use Web Code: ABD

Part No.	Mfr. Part No.	Description	1	10
146608	ST1	Screwdriver 1/16"	\$3.95	\$3.69
2137975	ST2	Screwdriver 1/10"	3.95	3.69
2137983	ST5	Single Flat 1/32"	3.95	3.69
146624	ST7	Conical 1/32"	3.95	3.69

Part No.	Mfr. Part No.	Wt. (oz.)	1	10
73576	83-4000-0000	0.5	\$2.69	\$2.49
170457	SOLDERDISPLF	0.5	3.25	2.95
141786	8PK-033P	16	26.95	23.95
32117	24-6040-0027	16	30.95	28.95

Soldering Accessories

Over 25 products available online. Use Web Code: SSA



Part No.	Mfr. Part No.	Description	1	10
156777	XYT 460	Soldering tip cleaner with stand, metal wool for cleaning, rubberized base	\$6.95	\$6.39
2168587	826054	Helping hand with LED magnifier glass, adjustable third hand with 2 alligator clips with extra flexible gripping arm with clip	74.95	69.95
141761	8PK-033ST-R	Solder spool holder retains up to 1 lb. spools for an easy draw while soldering	12.95	11.49
26690	3RD HAND	Third hand soldering tool with magnifying glass, 3.5" magnifying lens, 2 adjustable arms with alligator clips	7.95	6.95
153462	GSR-104-D-R	Desolder braid, 0.12" width, 5 feet long	2.49	2.25
41082	GISW20-R	Desolder braid, 0.079" width, 5 feet long, vacuum packed, pure rosin type R flux	1.95	1.75
36329	100SL	Black anodized steel soldering stand, includes sponge for sponge holder, works with most irons, 5.3" L x 3.3" W x 3" H	4.95	4.49
1942139	HB-017	High-vacuum, manual desolder pump. One hand operation and allows replacement tips	8.95	7.95

Batteries & Battery Holders



Batteries



Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Over 65 products available online. Use Web Code: LIP

Part No.	Manufacturer	Mfr. Part No.	Fig.	Chemistry	Form	Volts	mAh	Price
14162	Renata	CR2032	1	Lithium	CR2032	3	180	\$.89
2210010	ReliaPro	CR1220-LEADS	1	Lithium	CR1220\$	3	38	\$.89
2223443	ReliaPro	CR2032-LEADS	1	Lithium	CR2032\$	3	180	\$ 1.49
33398	Tadiran	TL-5104/P	2	Lithium	AA	3.6	2100	\$ 7.29
2129351	MG Electronics	LBP-124500	3	Lithium	Pack	12	4500	\$ 49.95
140783	Evergreen	S357ST	1	Silver Oxide	357 (SR44)	1.55	175	\$ 1.19
261657	ReliaPro	N700AA/BTN	2	NiCd	AA	1.2	700	\$ 1.75
244620	Tenergy	10005	5	NiMH	9V	8.4	200	\$ 7.95
2137473	Evergreen	NHB60H3A2H	4	NiMH	PC Pin (2)	3.6	80	\$ 4.95
198707	Energizer	ALK AA (EN91)\$	2	Alkaline	AA	1.5	2700	\$.79
198715	Energizer	ALK AAA (EN92)\$	2	Alkaline	AAA	1.5	1250	\$.69
198731	Energizer	ALK 9V 522	5	Alkaline	9V	9	600	\$ 2.25
264014	Tynonic	TY-6-4.5	6	Lead Acid	Sealed Box	6	4500	\$ 10.95
264057	Tynonic	TY-12-7.5	6	Lead Acid	Sealed Box	12	7500	\$ 24.95

[†] Order in min/multiple of 4

^{\$} Wires attached

Battery Holders

JAMECO ReliaPro

Over 60 products available online. Use Web Code: UAB



Part No.	Mfr. Part No.	Fig.	No. of Cells	Termination	Feature	1	10	100
216283	BH-421-1A	1	2-AAA	Wires, 5.5"	26 AWG	\$.59	\$.89	\$.75
216072	BH-311-2A	2	1-AA	Wires, 5.5"	26 AWG	.75	.65	.55
216081	BH-321-2A	1	2-AA	Wires, 5.5"	26 AWG	.89	.79	.69
216120	SBH-321-1AS	3	2-AA	Wires, 5.5"	with cover & switch, 26 AWG	1.95	1.75	1.59
216144	SBH-331-AS	3	3-AA	Wires, 6"	with cover & switch, 26 AWG	1.65	1.45	1.25
216187	SBH-341-1AS	4	4-AA	Wires, 6"	with cover & switch, 26 AWG	2.49	2.25	1.95
216152	BH-341-2A	5	4-AA	Wires, 5.5"	26 AWG	1.19	1.09	.99
216240	BH-383-A	6	8-AA	Wires, 6"	26 AWG, 4x2 cell configuration	1.95	1.75	1.59
216267	BH-383-B-R	6	8-AA	Snaps	Snaps terminals, 4x2 config.	1.95	1.75	1.59
216371	BH-111-1A	2	1-D	Wires, 6"	24 AWG	1.15	1.05	.89
109154	BC6	7	1-9V	Wires, 5.5"	snap, 26 AWG	.49	.39	.35
216452	SBS-IR-1-R	8	1-9V	Wires, 6"	26 AWG, covered terminals	.55	.45	.39
216427	BH-9V-A	9	1-9V	Wires, 5.5"	mountable, 26 AWG	.89	.79	.69
2128067	SBH-9VAS	10	1-9V	Wires, 5.5"	with cover & switch, 26 AWG	1.69	1.49	1.35
2207056	1X9V-2.1 SNAP	11	1-9V	Plug, 5.5"	2.1mm plug, 24 AWG	1.95	1.75	1.59
105794	GBH-1009-R	12	1-9V	—	Metal holder clip for 9V battery	.49	.45	.39
355434	17002-00603	13	1-CR2032	PC Mount	1x CR2032 max.	.75	.69	.59

Additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box.

Rechargeable Lithium Batteries

Lithium Iron Phosphate and Lithium Polymer are types of lithium-ion rechargeable batteries that have a high energy density and high cycle life.

2170290



Part No.	Mfr.	Mfr. P/N	Chemistry	Volts	Amp-Hrs.	Terminal	Price
2140349	Tenergy	30006	Li-Ion	3.7	2.6	Flat-top	\$ 11.95
2240139	Adafruit	328	Li-Ion Poly	3.7	2.5	JST-PH (2p)	18.95
2167787	DFRobot	FT0137	Li-Ion Poly	7.2	2.2	2.1mm plug	23.95
2144227	Tenergy	30225	LiFePO4	3.2	0.4	Button top	2.49
2170290	CTC Battery	LFP128075	LiFePO4	12.8	7.5	0.25" QC terminals	99.95
2170329	CTC Battery	LFP128198	LiFePO4	12.8	19.8	Nut & bolt	279.95

9 products available online. Use Web Code: LIF

3 LEVELS OF SAVINGS

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21

Breadboards, Protoboards & Enclosures

22 AWG Solid Jumper Wire

Jumper wire is a necessity for breadboarding circuits. Not only are they perfect temporary connections, but color coding also helps quickly trace circuits.



Over 30 products available online. Use Web Code: LAS

19290

Part No.	Mfr. Part No.	Description	Price
2127718	WJW-70B-5	70 piece kit 5 of each length 0.1" to 0.5" 10 colors	\$5.95
2094018	WJW-70B	70 piece kit 5 of each length 0.1" to 0.5" 10 colors	6.95
19290	WJW-60B-R	140 piece kit 5 of each length 0.1" to 0.5" 10 colors	12.95
20080	WJW-60P-R	150 piece kit 5 of each length 0.1" to 0.5" 10 colors refill for 19290	10.95
2213229	WJW-05 BLACK	1 each 0.5" black jumper wire (10 piece minimum) .....	.12
2213211	WJW-05 RED	1 each 0.5" red jumper wire (10 piece minimum) .....	.12
2213202	WJW-05 YELLOW	1 each 0.5" yellow jumper wire (10 piece minimum) .....	.12
2213173	WJW-10 BLACK	1 each 1.0" black jumper wire (10 piece minimum)17
2213165	WJW-20 BLUE	1 each 2.0" blue jumper wire (10 piece minimum)19

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Solderless Breadboards

- These boards interconnect with each other



20601



2229175



20758



20774



20791



20812

Over 50 products available online. Use Web Code: HAC

General Purpose Prototyping Boards



105100

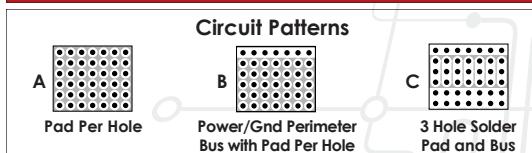


206587



21435

Over 50 products available online. Use Web Code: PBH



Part No.	Mfr. Part No.	Size (W" x L")	Circuit Pattern	Hole Pads	# Holes x Dia.	# Mntg Holes x Dia.	1	10
105100	G/S(PCB228)-R	1.6 x 2.7	A	Single-sided	288 x 0.35"	2 x 0.12"	\$5.95	\$5.35
105111	PCB-102-R	2.4 x 3.4	B	Single-sided	637 x 0.38"	2 x 0.14"	5.49	4.95
263207	PCB-463-R	2.4 x 4.1	A	Plated through	640 x 0.31"	4 x 0.12"	8.95	7.95
206587	PCB-586-R	4.3 x 6.8	B	Single-sided	2550 x 0.04"	4 x 0.14"	8.95	7.95
21435	JE401-R	4.5 x 6.5	A/C	Single-sided	2360 x 0.04"	None	14.95	13.49
21478	JE407-R	5.0 x 13.25	A	Plated through	6063 x 0.38"	8 x 0.12"	34.95	29.95
206594	PCB-594	5.5 x 8.0	B	Single-sided	3906 x 0.04"	4 x 0.14"	11.95	10.95

Enclosures



18914



18869



208911



209358



11973

Over 65 products available online. Use Web Code: UAL

Part No.	Mfr. Part No.	Size (L" x W" x H")	Type	Color	Includes	1	10	50
18922	H2855-R	3.1 x 2.0 x 0.9	ABS Plastic	Black	Screws	\$3.49	\$3.19	\$2.89
18914	H2853-R	4.9 x 2.5 x 1.5	ABS Plastic	Black	Screws	3.95	3.59	3.19
18893	H2851-R	6.0 x 3.5 x 1.9	ABS Plastic	Black	Screws	4.95	4.49	3.95
18906	H2852-R	7.5 x 4.3 x 2.3	ABS Plastic	Black	Screws	6.49	5.95	5.39
18869	H2505-R	7.9 x 6.3 x 2.5	ABS Heavy Duty	Gray, black ends	Vent, speaker sound slots	8.95	7.95	7.19
208911	CMC 11922-R	5.9 x 5.3 x 3.0	Metal	Black, ivory base	Screws, rubber feet	9.95	8.95	7.95
209358	SY0207-R	7.5 x 9.8 x 3.2	Metal	Black, ivory base	Screws, rubber feet	15.95	14.49	12.95
11965	03-125B	4.7 x 2.6 x 1.4	Die Cast Aluminum	Gray	Screws	9.95	8.95	7.95
11973	03-125C	7.5 x 4.3 x 2.4	Die Cast Aluminum	Gray	Screws	19.95	18.95	17.95

Electronic Kits & Arduino Products



2131012



2130802



20626



2136569



2157116

Electronics Kits (Requires assembly)

Over 350 products available online. Use Web Code: EKS

Part No.	Mfr. Part No.	Description	Exp. Level	1	5
147580	MK102	Flashing LED kit: Two red 5mm LEDs, adjustable flash rate	BEG	\$3.95	\$3.59
147571	MK103	Voice Activated kit: Triggers 4 LEDs that vary with sound intensity	BEG	4.95	4.59
2131207	MK135	Electronic Decision Maker. Like a digital coin toss.	BEG	6.79	6.19
2136956	MK104	Light Sensitive Electronic Cricket: Effect, tone & sensitivity adjustable	BEG	6.99	6.39
147555	MK101	Flashing LED Sweetheart: 28 red LEDs form two blinking hearts	BEG	7.19	6.59
117621	K1823	1 Amp Power Supply: Preset output from 1.5-35V, 28VAC/40VDC in	BEG	8.89	7.89
2136964	MK131	4-Way LED Traffic Light Kit: On/Off switch and adjustable delay	BEG	8.99	8.29
2136999	MK112	Brain Game kit: 4 difficulty levels to choose (Simon Says)	BEG	8.99	8.29
662670	EBST-11	1 Watt Audio Stereo Amplifier kit: Based on 2x LM386 & 1x LM1458	BEG	11.95	10.95
2131012	MK120	IR Light Barrier kit: Sounds a buzzer & LED when IR beam is broken	BEG	9.65	8.79
2130802	MK150	Shaking Dice: Give a shake to simulate a roll, last number flashes	BEG	9.49	8.59
2161617	SP-1A	Learn to Solder Practice Kit: Learn to solder & makes a siren	BEG	9.95	8.95
2124218	AK-100	Learn to Solder Practice kit: Same as above, Includes soldering iron	BEG	14.95	13.95
151204	AA-1D	Super Snooper Big Ear Audio Amplifier kit: Based on LM386, 1 watt	BEG	12.95	11.49
2130731	MK171	Voice Changer kit: Add effects like vibrato and robot sounds	BEG	9.49	8.65
151239	FMST-100	FM Stereo Transmitter kit: Sends up to 150' (antenna not included)	BEG	29.95	27.95
2155541	COLORORGAN	LED Color Organ kit with PCB: Adjustable high, mid & low sensitivity	BEG	39.95	35.95
2126272	KIT-CS5	Customizable LED Color Organ: Layout circuit on bare protoboard	INT	34.95	29.95
662725	EBLOG-300A	Digital Logic Probe kit: Shows if a signal is high, low or changing	INT	10.95	9.95
129091	K7102	Metal Detector: Adjustable sensitivity, LED indicator. 9V required	INT	13.95	13.49
120539	K8004	DC Voltage to PWM: 0-100%, 100Hz-5kHz, 6.5A max. output	INT	18.49	17.19
20626	JE215	Dual-Output Adjustable Linear Regulated Power Supply. ±5 to ±15VDC	INT	29.95	26.95
2136569	956	Desktop LED Shadow Clock: Shows hrs, mins & secs like a sundial	INT	84.95	79.95
2157116	258	Egg-Bot Deluxe: Open-source robotic arm draws on spheres upto 4.25"	INT	199.95	189.95
2210651	JE888-BLU	8x8x8 Blue LED Cube with PCB: Cube board has 0.5" grid	EXP	149.95	139.95
2168940	CJKIT-20817	Advanced 8x8x8 Blue LED Cube with blank protoboard. No case.	EXP	149.95	139.95



2151259



2151486



2152366



2121148



2170222



2144534

Arduino Microcontrollers & Shields

Over 40 products available online. Use Web Code: AOS

Part No.	Mfr. Part No.	Description	Exp. Level	1	5
2151259	BB-Arduino	Minimalist Arduino Circuit Kit. ATmega328, assembly required	BEG	\$12.95	\$11.95
2151486	A000066	Arduino UNO R3. DIP ATmega328P, 32KB Flash, 14 I/O	BEG	21.49	20.39
2152366	A000067	Arduino MEGA2560 R3. 256KB Flash, 54 I/O, 16 analog in	BEG	37.59	35.69
2121148	A000005	Arduino Nano v3. SMD ATmega328, breadboard ready, 14 I/O	BEG	21.45	20.69
2170222	A000062	Arduino DUE. 32-bit ARM Cortex-M3, 84MHz, 54 I/O, 3.3V	BEG	38.59	37.95
2152438	A000082	Proto Shield blank PCB in Uno R3 layout. Design your own shield	BEG	4.49	4.15
2144534	DFR0060	Screw Shield converts header pins into reliable screw terminals	BEG	7.49	6.49
2152260	DFR0144	Relay Shield v2.1 with 4 relays, XBee header. Contact: 3A 120VAC/24VDC	INT	14.49	13.95
2193651	1438	Motor/Stepper/Servo Shield for Arduino v2, L293D, 1.2A/CH	INT	19.79	17.99

* Arduino microcontroller required, sold separately

† MicroSD card not included

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Arduino Favorites

These are some of the most popular kits or latest microcontrollers from the Arduino family of open-source electronics. Check out the powerful Intel Arduino 101 with two cores and built-in Bluetooth LE and 6-axis gyro.



25 more products available online. Use Web Code: ARD

Part No.	Mfr. Part No.	Description	Price
2129334	A000048	ATmega328P-PU 32KB, 8-bit MCU with Arduino Uno optiboot bootloader, DIP-28	\$4.49
2115768	KARDW	Ardweeny MCU kit: Minimalist Uno in footprint of single 28-pin IC	12.95
2207700	A000053	Arduino Micro: ATmega32u4, 5V, 20 dig. I/O, 12 analog in, 32K Flash	20.59
2239331	ATLASEDGE.1	Intel Arduino 101: Curie MCU, 14 dig. I/O, 6 analog in, 196K Flash, BT LE, 6-axis gyro	34.95
2171188	K000007	Genuine Arduino Uno Starter kit with book and components for 14 projects	85.79

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Electronic Kits & Solar Panels

Jameco Favorites

JAMECO KitPro



Electronics kits are a great way to test your soldering skills, assemble a fun project, or modify it to integrate into your own project.

Part No.	Mfr. Part No.	Description	2216606	2217078	Price
2217174	JE255	Dual Jumbo Red LED Flasher breadboard kit with adjustable flash rate			\$5.95
2216606	JE250	Dual Jumbo Red LED Flasher solder kit with adjustable flash rate			5.95
2160817	CJKIT-20364	Super Simple Low Power AM Radio Transmitter breadboard project			14.95
2155487	KIT-APC	Atari Punk Console kit inspired by Forrest M. Mims III			26.95
2170812	CJKIT-20255	Pocket Photodiode Geiger Counter for alpha & beta particles			32.95
2190080	CJKIT-21138	Vein Finder: A fun DIY way to see veins under your skin			39.95
2217078	JE270	Arduino-Compatible Customizable 8-Digit LED Clock Kit with DS1307			69.95

Over 100 products available online. Use Web Code: CJK

Additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

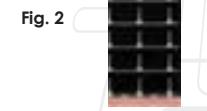
Flexible & Rigid Solar Panels

9 more products available online. Use Web Code: AEK

- Rigid solar panels (Fig. 1) have leads attached

Part No.	Mfr. Part No.	Fig.	Operating Voltage (VDC)	Operating Current (mA)	Size (L" x W" x Th")	Price
2136921	SOL3	1	1.0	200	3.0 x 1.8 x .20	\$5.95
2210079	FAD-1	1	1.2	75	1.2 x 0.7 x 0.1	3.95
227985	SP3-37	2	3.0	22	2.5 x 1.5 x .01	3.95
227993	MP3-25	2	3.0	25	4.5 x 1.0 x .01	4.95
171061	MP3-37	2	3.0	50	4.5 x 1.5 x .01	5.95
215319	4-3.0-100	1	3.0	100	3.8 x 2.5 x .25	12.95
228030	SP4.2-37	2	4.2	22	3.3 x 1.5 x .01	5.95
228072	MPT6-150	2	6.0	100	4.5 x 5.9 x .01	19.95
2221456	PEP20*	2	6.0	150	4.0 x 3.0 x .12	14.95
2260041	G/S SOLAR PANEL*	1	6.0	150	3.5 x 3.0 x .01	9.95
215327	4-6.0-50	1	6.0	50	3.8 x 2.5 x .02	14.95

*Alligator clip leads



Robotic & Electronics Kits (Requires assembly)

Over 350 products available online. Use Web Code: EKS

Challenge yourself or improve your skills with a variety of kits for all levels of experience.

- Some robots or kits can be combined with sensors and other kits to enhance their abilities
- See online for complete description for required tools or power/battery options



Part No.	Mfr. Part No.	Description	Exp. Level	Price
200328	MK127	Running Micro BugKit: Attracted to light & sensitivity adjustable	BEG	\$9.95
2112006	MSK670	Frightened Grasshopper kit. Solar Powered	BEG	9.95
2190717	ROB0103	DIY Spider Robot Chassis: 8-legged walker can be upgraded with your MCU	BEG	5.95
2136534	091	Larsen Scanner: Mimic a cylon eye scanner with (9) 10mm red LEDs	BEG	15.95
2128340	OWI-750	Salt Water Fuel Cell Car: (3) Magnesium metal sheets last 5-7 hrs.	BEG	13.95
2150619	RS014-USB	2-in-1 Mini Robots include IR compound eye, 4 mini servos & remote	BEG	59.95
2169580	CJKIT-20829	Easy Laser Alarm Kit, sense light from a laser pointer and sound a buzzer	INT	19.95
386610	21-886	Terrain Escape Robot with IR emitting diode and receiver module	INT	21.95
386708	21-880	Line Tracking Robot Mouse soldering kit. 130 pieces	INT	22.95
20685	JE2206	Function Generator, 1-100 kHz in four ranges, based on XR2206 IC	INT	29.95
2095023	OWI-535	Robotic Arm. 5 DOF, 270° rotation, lifts 100g, 12.6" reach	INT	44.95
2236922	OWI-632	Hydraulic Arm uses water for 6 DOF, lifts 50g, removable gripper	INT	39.95
2247322	CJKIT-21467	Infinity mirror v2.0: RGB LED strip, additional materials required	INT	59.95
387997	28832	USB BoE-Bot full kit, BASIC Stamp, reprogrammable and expandable	INT	144.49
2191998	32500	ActivityBot Robot: Learn 8-core Propeller MCU. For ages 14+	INT	198.95

Featured Products



Alternative Energy Kits

OWI Robot distills scientific, technical and alternative energy concepts into educational and fun, age-appropriate kits to encourage enthusiasm in technology.



2245132



2245167

Price

Part No.	Mfr. Part No.	Description		
2245132	OWI-MSK684	Captain Roam-E-O, 6 wheel 4WD Curiosity inspired robot	\$19.95	
2245141	OWI-MSK640	7-in-1 Rechargeable Solar Transformers, 50-80 seconds per charge	26.95	
2192333	OWI-MSK615	14-in-1 solar power robot, beetle, speedster, boat-bot & more	29.95	
2245159	OWI-MSK641	7-in-1 Rechargeable Solar Space Fleet. Robot, rover, dog & more	29.95	
2245167	OWI-633	Magnetic Levitation Express. Build 10.9" train & 29" x 18" loop	57.95	

Complete product specifications available online. Use Web Code: NRG

Test Clips, Plugs and Posts

Must have cables for your electronic test equipment, classroom labs, work benches and toolboxes.



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2244631



2244623

1 10

Part No.	Mfr. Part No.	Description			
2244295	GHT-2266-R	Screw type binding post, chassis mount, red	\$1.25	\$1.09	
2244308	GHT-2266-B	Screw type binding post, chassis mount, black	1.25	1.09	
2244607	1825-2-01	Single red stackable banana plug with safety collar	2.15	1.89	
2244615	1825-0-01	Single black stackable banana plug with safety collar	2.15	1.89	
2244631	4555-2-01	Single red minigrabber test clip (7 AWG wire max.)	2.49	2.19	
2244623	4555-0-01	Single black minigrabber test clip (7 AWG wire max.)	2.65	2.39	
2244640	5931-0-01	Single panel mount banana jack for sheathed plugs	2.99	2.69	
2210239	GAL1016	(10) 21" alligator clip test leads, 16 AWG, 5 colors	9.95	8.95	

Complete product specifications available online. Use Web Code: TLC

DC Motors

These powerful, high-quality DC motors come in a variety sizes to fit in many applications and are available at great prices!



Part No.	Mfr. Part No.	Nominal Voltage (V)	@ Max. Efficiency			Price
			Speed (RPM)	Current (mA)	Torque (g-cm)	
2233932	RE-260RA/2295	3	7600	636	13.4	\$2.49
238458	RF-300CA-11400-R	3	2400	65	4.3	3.49
2237765	FE-260B-20110-LR/46	3	5126	756	14.4	1.79
2230037	RF-500TB-14415-R-J/32	6	2755	164	18.2	3.95
2173044	RF-500TB-12560-R	6	2089	90	10.8	3.95
238473	RF370CA-15370	12	4840	170	25.3	3.49



2237765

Complete product specifications available online. Use Web Code: FBN

AC-to-DC Regulated Switching Wall Adapters

These wall adapters are just what you need to power and charge your devices. We have a variety of models with different output connector sizes, voltages, and some with "slim line" form factor. Check out these top picks and our full selection as well.

- Female center positive
- Cord length: 6 ft.
- Output connector: 2.1mm x 5.5mm female

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2120090

Part No.	Mfr. Part No.	Voltage (V)	Current (A)	Power (W)	Size (L" x W" x H")	Price
2120090	MU05-J050100-A1-2.1	5	1.0	5	2.6 x 1.27 x 1.53	\$6.49
2135451	LFS054000D-8AS	5	4.0	20	2.0 x 1.5 x 3.3	9.95
2234100	MTR-16110#	9	1.0	9	2.5 x 1.7 x 1.1	10.95
2232825	SPS121	12	1.0	12	2.4 x 1.6 x 1.1	8.95
2233983	DSA-12PFT-12FUS#	12	1.0	12	2.7 x 1.5 x 1.1	10.95
252833	S15AC12012501L5190	12	1.25	15	1.7 x 1.1 x 2.9	13.95
1950497	GQ30-120200-BU	12	2.0	24	2.3 x 1.3 x 2.9	15.95
2229941	MTR-16109#	24	0.5	12	2.9 x 2.2 x 1.3	11.95
2076341	S15AD24006201L5260	24	0.63	15.1	1.7 x 1.1 x 2.0	11.95

2229941

#Level VI efficiency

Complete product specifications available online. Use Web Code: CDZ

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- Constant voltage design
- Fully isolated plastic case
- Input: 90-264VAC @ 47-63Hz, 127-370VDC
- Suitable for LED lighting and moving sign application



LPV-60

Part No.	Mfr. Part No.	Output Voltage @ Current	Power (W)	Efficiency (%)	1	10
2102596	LPV-20-12	+12V @ 1.67A	20	81	\$8.75	\$7.49
2103142	LPV-35-12	+12V @ 3A	36	84	12.60	10.59
2103169	LPV-60-12	+12V @ 5A	60	83	13.95	11.75
2102617	LPV-20-24	+24V @ 0.84A	20	83	8.75	7.49
2102799	LPV-35-24	+24V @ 1.5A	36	85	12.60	10.59
2102801	LPV-60-24	+24V @ 2.5A	60	86	13.95	11.75

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AC-to-AC Wall Adapters

AC wall transformers are still found in household electronic devices. We carry a variety of voltages at the price you like.

- Input: 120VAC @ 60Hz.



2227612

2229386

Part No.	Product No.	Voltage (VAC)/ Current (A)	Power (W)	Output Conn. (ID x OD) mm	Size (L" x W" x H")	1	10
2230651	ABU050050R	5 @ 0.5	2.5	2.1 x 5.5 F	2.7 x 1.9 x 1.7 ..	\$7.95	\$6.95
100061	ACU090050	9 @ 0.5	4.5	2.1 x 5.5 F	2.7 x 1.9 x 1.7	8.95	7.95
2231574	ACU090100	9 @ 1.0	9	3.5 M	2.5 x 2.0 x 1.6	8.95	7.95
2197581	GPU481202000WA00	12 @ 2.0	24	2.1 x 5.5 F	3.3 x 2.6 x 2.2 ..	14.95	13.49
2227612	ADU160100-25	16 @ 1.0	16	2.5 x 5.5 F	2.5 x 2.2 x 1.9 ..	11.95	10.95
2179622	AFU180200	18 @ 2.0	36	2.1 x 5.5 F	3.4 x 2.7 x 2.1 ..	12.95	11.95
87581	ADU240050	24 @ 0.5	12	2.1 x 5.5 F	2.5 x 2.2 x 1.9	9.95	8.95
2100195	GPU572401500WA00	24 @ 1.5	36	2.1 x 5.5 F	3.3 x 2.6 x 2.2 ..	14.95	13.49
2229386	MGT2450P#	24 @ 2.0	50	Screw terminals	3.2 x 2.2 x 1.9 ..	17.75	15.95

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